

DRAWINGS OF OFFICE AND UTILITY BUILDING PART 01 FOR MARIGOLD PROJECT

PROJECT:
**MARIGOLD PROJECT FOR PLADIS ACI
BANGLADESH LTD.
AT BANGLADESH SPECIAL ECONOMIC
ZONE IN ARAHAZAR, NARAYANGANJ,
BANGLADESH.**

CLIENT:
PLADIS ACI BANGLADESH LTD.
ACI CENTER,
245, TEJGAON I/A
DHAKA-1208, BANGLADESH

CONSULTANT :
STRUCTURAL DESIGN ASSOCIATES.
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GENERAL STRUCTURAL NOTE

1. GENERAL :

- DESIGN METHOD USED IN USD ACCORDING TO BANGLADESH NATIONAL BUILDING CODE (BNBC 2020) AND [ACI 318-08](#)
- ALL THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
- FOLLOW [BNBC 2020](#) DRAFT FOR SPECIFICATION/STRUCTURAL REQUIREMENTS NOT MENTIONED IN THE DRAWINGS OR IN THIS NOTE SHEET.
- ANY DETAILS NOT SHOWN IN THE DRAWING SHOULD BE DONE ACCORDING TO ACI DETAILING MANUAL-2004
- BASIC WIND SPEED = 236.52 KMH.
- SEISMIC ZONE -2
- OTHER LOADS AS PER BNBC 2020

2. FOUNDATION:

- REFERENCE MAY BE MADE TO SOIL TEST REPORT DATED JULY 2022 BY SDE.
- FOUNDATIONS SHOWN ON THE DRAWINGS ARE: PILE FOUNDATIONS.
- ANY LOOSE POCKET FOUND IN FOUNDATION BED IS TO BE FILLED WITH SAND OF FM-2.50 WITH MIN 95% COMPACTION AS PER AASHTO T-90.
- DEPTH OF FOUNDATION AS PER DRAWING.

3. CONCRETE:

- TYPE - I** : COMPRESSIVE STRENGTH MINIMUM $f_c = 4500$ psi (31.02 Mpa) IN 1:1.5:3 FOR ALL PILE, PILE CAP, COLUMN & GRADE BEAM WORKS, FLOOR BEAM, STAIR ETC. USING STONE CHIPS AS C.A.
- MINIMUM CYLINDER STRENGTH** : BASED ON CYLINDER TEST OF DIAMETER, D = 6 Inch (152.4 mm) & HEIGHT, H = 12 Inch (304.8 mm) FOR TYPE -I.
 - 28 DAYS STRENGTH = 4500 psi (31.02 Mpa)
- CURING OF R.C.C WORK** :
 - CURING TIME MINIMUM 14 DAYS
 - METHOD OF CURING :
 - HORIZONTAL SURFACE - BY PONDING OF WATER.
 - OTHER SURFACES - BY WRAPPING MOIST JUTE FABRIC AND SPRINKLING WATER BY HOSE PIPE FREQUENTLY

4. CONCRETE MATERIAL:

- CEMENT** : ORDINARY PORTLAND CEMENT TO BE USED IN WORKS ([CONFORMING BDS EN 197-1:2003 OR ASTM C150/C150M](#)).
- FINE AGGREGATES** : SYLHET SAND OF F.M - 2.50 (MINM.) TO BE USED AS F.A.
- COARSE AGGREGATES (C.A)** :
 - FOR TYPE -I: USE 3/4" (20 mm) DOWN GRADED STONE CHIPS AS COARSE AGGREGATE.
- WATER** : POTABLE/DRINKABLE WATER TO BE USED IN CONCRETE MIX.

5. STEEL REINFORCEMENT:

- REINFORCEMENTS FOR ALL R.C.C MEMBERS EXCEPT PILES ARE 60.0 - GRADE HIGH STRENGTH DEFORMED BAR MADE FROM BILLET STEEL AND FOUNDATION WORK IS 60.0 GRADE, FOR PILE WORKS 72.5 GRADE HIGH STRENGTH DEFORMED BAR TO BE USED.
- YIELD STRENGTH $f_y = 60000$ psi (414 MPa)/ 72500 PSI (500 MPA)
- AS PER CONFIRM TO ONE OF THE FOLLOWING SPECIFICATION:
 - ASTM A615, II) ASTM A706M II) BDS ISO 6935-2:2010
- THE FOLLOWING TESTS FOR REINFORCING BARS FROM RANDOM SAMPLES SHALL BE CONDUCTED AS PER BDS ISO 6935-2 : 2007(E) AND TEST RESULT SHALL BE SUBMITTED TO THE ENGINEER FOR CHEKING AND RECORD:
 - TENSILE STRENGTH TEST
 - PERCENTAGE ELONGATION TEST
 - BEND AND REBEND TEST

6.CLEAR COVER:

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE MINIMUM CLEAR COVER OF REINFORCEMENTS SHALL BE THE FOLLOWING :

- | | |
|---------------------------------|----------|
| a) TOP OF FLOOR SLAB | = 20 mm |
| b) BOTTOM OF FLOOR SLAB & STAIR | = 20 mm |
| c) FOR ALL SIDES OF FOOTING | = 75 mm |
| d) CAST IN SITU PILE | = 75 mm |
| PRE CAST PILE | = 50 mm |
| e) PILE CAP BOTTOM | = 150 mm |
| i) PILE CAP TOP | = 75 mm |
| j) PILE CAP SIDE | = 75 mm |
| d) GRADE BEAM | = 50 mm |
| g) ALL SIDES OF FLOOR BEAM | = 40 mm |
| e) ALL SIDES OF COLUMN : | |
| i) BELOW F.G.L | = 65 mm |
| i) ABOVE F.G.L | = 40 mm |

7. LAP LENGTH :

UNLESS OTHERWISE MENTIONED IN THE DRAWINGS, LAP LENGTH OF BARS SHALL BE

BAR DESIGNATION	COMPRESSION (mm)	TENSION (mm)	
		TOP BAR	OTHER BAR
MATRIC MM	ALL BAR		
10 Ø	300 mm	625 mm	475 mm
12 Ø	375 mm	750 mm	575 mm
16 Ø	475 mm	1000 mm	775 mm
20 Ø	600 mm	1550 mm	1200 mm
25 Ø	750 mm	2000 mm	1550 mm

* FOR BUNDLE BAR LAP LENGTH INCREASE 20%

8. DEVELOPMENT LENGTH FOR STANDARD HOOKED BARS

ALL BEAM AND SLAB REBARS SHOULD BE EXTENDED INTO THE SUPPORT UP TO DEVELOPMENT LENGTH AS PER BELOW TABLE.

BAR DESIGNATION	DEVELOPMENT LENGTH
MATRIC MM	
10 Ø	200 mm
12 Ø	250 mm
16 Ø	325 mm
20 Ø	400 mm
25 Ø	475 mm

9. ADMIXTURE

WATER PROOFING ADMIXTURE, PLASTICISER AND JOINTING ADMIXTURE SHALL BE USED AS MENTIONED IN THE RESPECTIVE DRAWINGS AND IN THE SPECIFICATION AFTER APPROVAL BY THE ENGINEER.

10. WATER STOPPER

300 mm WIDE PVC WATER STOPPER TO BE USED AT ALL CONSTRUCTION JOINTS BELOW GROUND IN MAT, SHEAR WALL, WATER TANK WALL ETC.

11. HOOKS OF REBAR :

- FOR ALL RE-BAR ; PROVIDE 90° STANDARD HOOKS (L-BENT)
- IF NOT SHOWN IN DRAWINGS (LENGTH= 12 d_b , d_b = BAR DIA).

12. SPACE BARS :

TO SUPPORT SECOND LAYER BARS IN BEAM, USE 25 MM Ø SPACER BARS @ 1000 MM C/C WHERE REQUIRED.

13. CHAIR :

- USE CHAIRS OF NECESSARY DIMENSION MADE OF 100/120/160 BARS TO SUPPORT TOP BARS @ 1000 MM C/C.
- CONCRETE BLOCK OF REQUIRED SIZE CAN BE USED TO SUPPORT TOP BARS IN SLAB AS REQUIRED.

14. LAP LOCATION :

FOR BEAM BOTTOM BAR, LAP SHOULD NOT BE PROVIDED AT MIDDLE THIRD ZONE OF THE SPAN

FOR BEAM TOP BAR, LAP SHOULD NOT BE PROVIDED AT END THIRD ZONE OF THE SPAN

NOT MORE THAN 50% OF THE BARS SHALL BE

SPLICED AT ONE PLACE

LAP SPLICES ARE TO BE COMBINED BY HOOPS WITH MAXIMUM SPACING OR PITCH OF $d/4$ OR 100mm WHERE d IS THE EFFECTIVE DEPTH OF THE BEAM.

15. BINDER REINFORCEMENT FOR SLAB, WALL, DROP WALL ETC :

- USE 10 MM Ø @ 300 mm C/C, AS BOTTOM BINDER WHERE REQUIRED.
- USE 10 MM Ø @ 300 mm C/C, AS TOP BINDER (EXCEPT CANTILEVER) WHERE NOT SHOWN IN THE DRAWING.
- USE 10 MM Ø @ 225mm C/C, AS TOP BINDER FOR CANTILEVER WHERE NOT SHOWN IN THE DRAWING.

16. MAXIMUM BARS IN BEAMS IN SINGLE LAYER

MAXIMUM NUMBER OF BARS AS A SINGLE LAYER IN BEAMSTEM SHALL BE AS PER ACI DETAILING MANUAL 2004.

17. MINIMUM BAR SPACING OF COLUMN

LONGITUDINAL BARS
CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL NOT BE LESS THAN 1.5 TIMES BAR DIAMETER, 1.5 TIMES OF THE MAXIMUM SIZE OF COARSE AGGREGATE NOR 40mm.

18. ANY DETAILS NOT SHOWN IN THE DRAWING SHOULD BE DONE ACCORDING TO ACI 318-08 AND BNBC 2020 AND ACI DETAILING MANUAL 2004.

19. ALL BEAM AND SLAB REBARS SHOULD BE EXTENDED IN TO THE SUPPORT UPTO DEVELOPMENT LENGTH / AS SHOWN.

20. SEISMIC RESISTANCE DETAILS FOR COLUMN AND BEAM TO BE FOLLOWED STRICTLY AS SPECIFIED IN THE DRAWING .

STRUCTURAL DESIGN CRITERIA & MINIMUM REQUIREMENTS

21. CONCRETE CLEAR COVER FOR REINFORCING BARS

Member	Location/Condition	Thickness of Cover	Figure
Mat	Side	75	
	Bottom	75	
Column	Above ground level	40	
	Below ground level	65	
Beam	Indoors face : top, side & bott.	40	
	Outdoors face : top, side & bott.	40	
Slab and stair	Top and bottom	20	
Wall (above basement wall)	Exterior	50	
	Interior	25	
Water tank	Water face	50	
	Other face	50	

* From tie

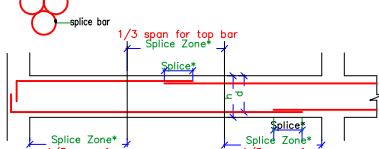
** From stirrups

22. RECOMMENDED END HOOKS

Bar hook	Form and Extension	Bend Angle (degree)	Bend Radius (r)	Used Bar	Location
Primary reinf.		180°	$r = 3d_b$	6 to 25	Lap splice end of anchorage
		135°	$r = 2.0d_b$	6 to 12	Stirrups fastening bar diagonal hoop
Primary reinf.		90°	$r = 3.0d_b$	6 to 32	Bend-up for embedment
		45°	$r = 5d_b$	8 to 20	Bend bar in slab

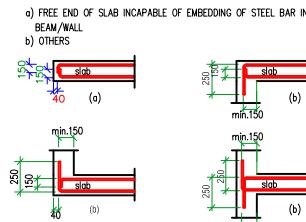
23. BUNDLE BAR

BARS IN A BUNDLE MUST TERMINATE WITH AT LEAST 40 BAR DIA STAGGER EXCEPT WHERE THE BUNDLE TERMINATED.



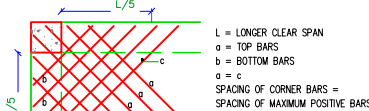
* AT LAP SPICE SPACING OF HOOPS $\leq d/4$ BUT NOT GREATER THAN 100

24. SLAB END REINFORCING DETAILS



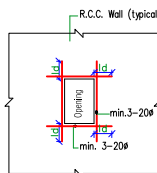
25. CORNER REINFORCEMENT

CORNER REINFORCEMENT FOR BEAM SUPPORTED 2-WAY SLABS

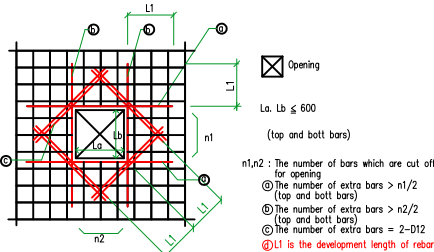


26. OPENING IN R.C.C. WALLS

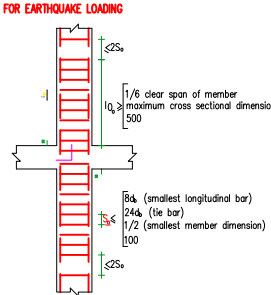
NOT LESS THAN THREE NO. 20# BARS SHALL BE PROVIDED AROUND ALL DOOR AND WINDOW OPENINGS IN R.C.C. WALLS. THE BAR SHALL BE EXTENDED BEYOND THE CORNERS OF THE OPENINGS TO A DISTANCE EQUAL TO THE DEVELOPMENT LENGTH BUT NOT LESS THAN 600mm.



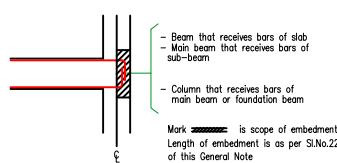
27. REINFORCEMENT DETAILS FOR SLAB OPENINGS



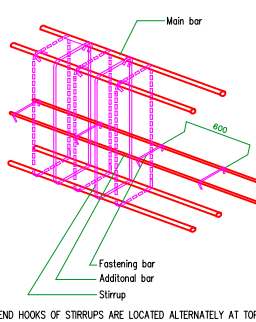
28. CONFINEMENT REQUIREMENTS OF COLUMN AT JOINTS FOR EARTHQUAKE LOADING



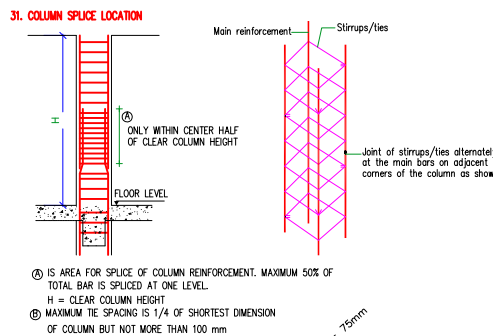
29. SCOPE OF EMBEDMENT



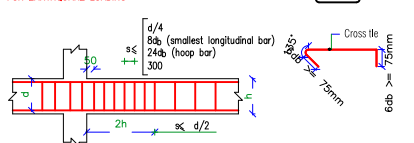
30. END HOOK OF STIRRUPS

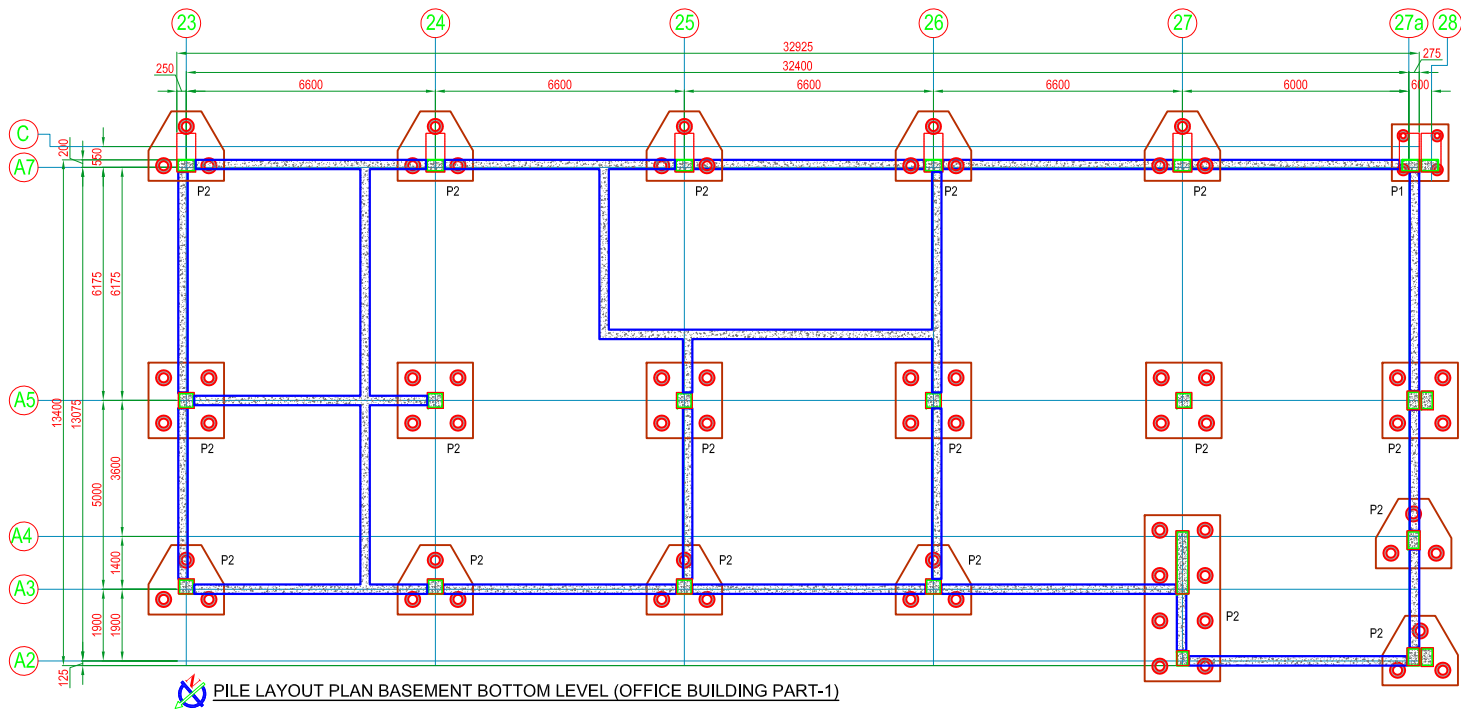


31. COLUMN SPICE LOCATION

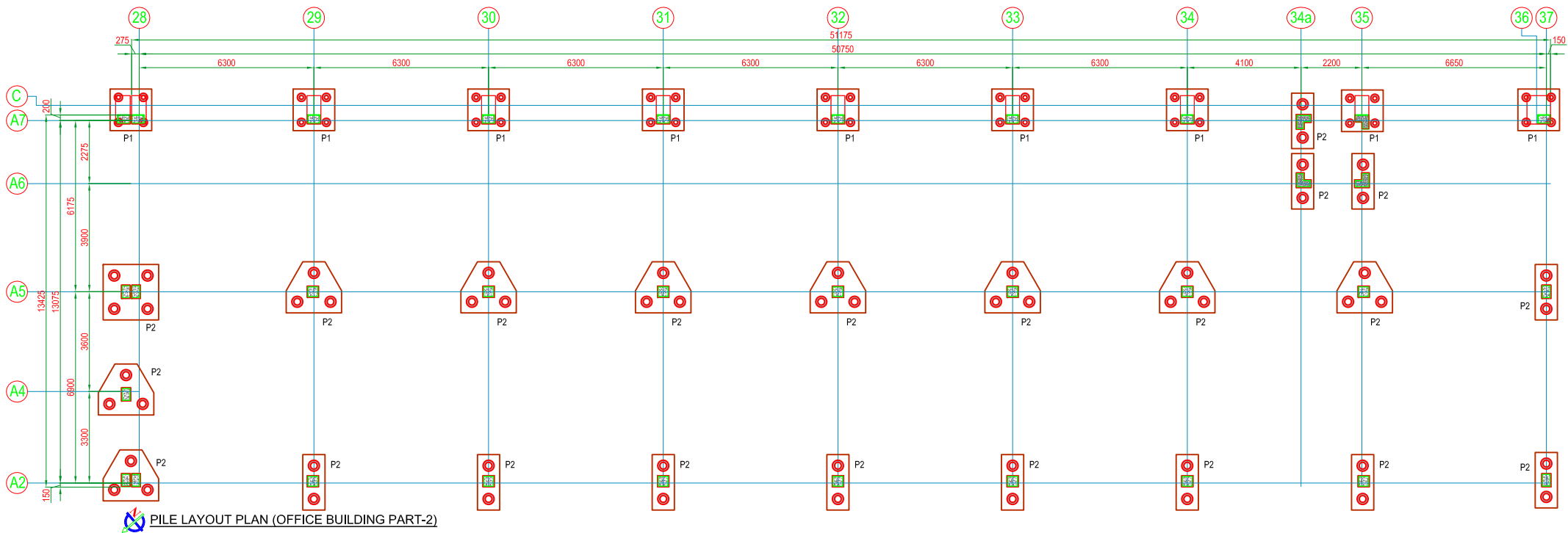


32. CONFINEMENT REQUIREMENTS OF BEAM AT JOINTS FOR EARTHQUAKE LOADING





PILE LAYOUT PLAN BASEMENT BOTTOM LEVEL (OFFICE BUILDING PART-1)



PILE LAYOUT PLAN (OFFICE BUILDING PART-2)

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CONSULTANT



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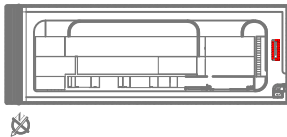
ARCHITECTURAL TEAM

MD. MEHEDI ZAMAN
B.Arch (KU) AMIAB(AZ-013)

STRUCTURAL DESIGN BY

ACHINTYA KUMAR SAHA
B.Sc. ENGG. (CIVIL), BUET, FEB - 10387

LOCATION KEY PLAN (NOT TO SCALE)



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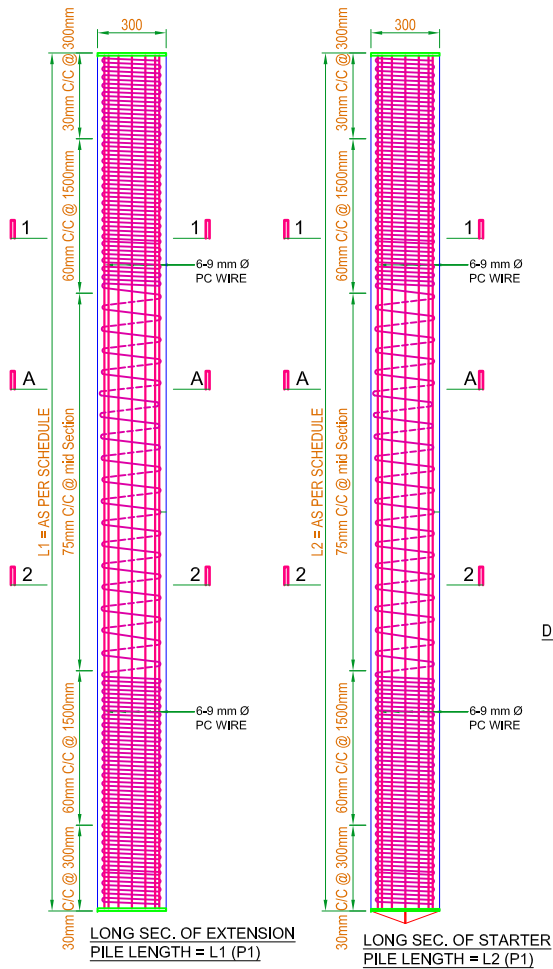
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REVISION NO :

RE-00

DATE

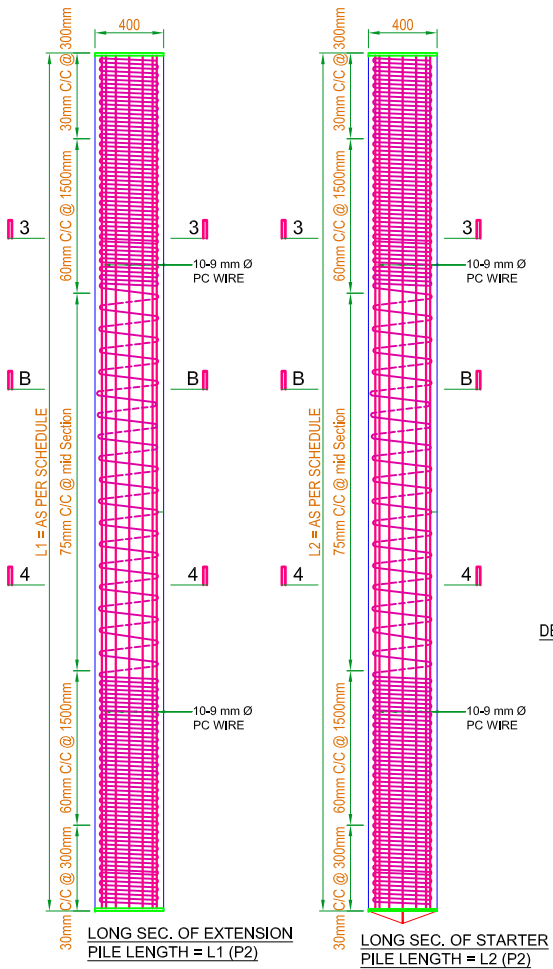
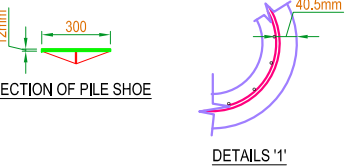
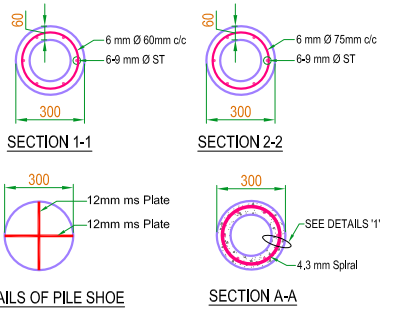
FEBRUARY - 24 - 2024



SCHEDULE OF PILE:

SL. NO.	LENGTH OF PILE (L)	LENGTH (L1)	LENGTH (L2)	VERTICAL REINF.	CAPACITY
P1	21350 mm	12000 mm	9350 mm	6-9 mm Ø	58 ton

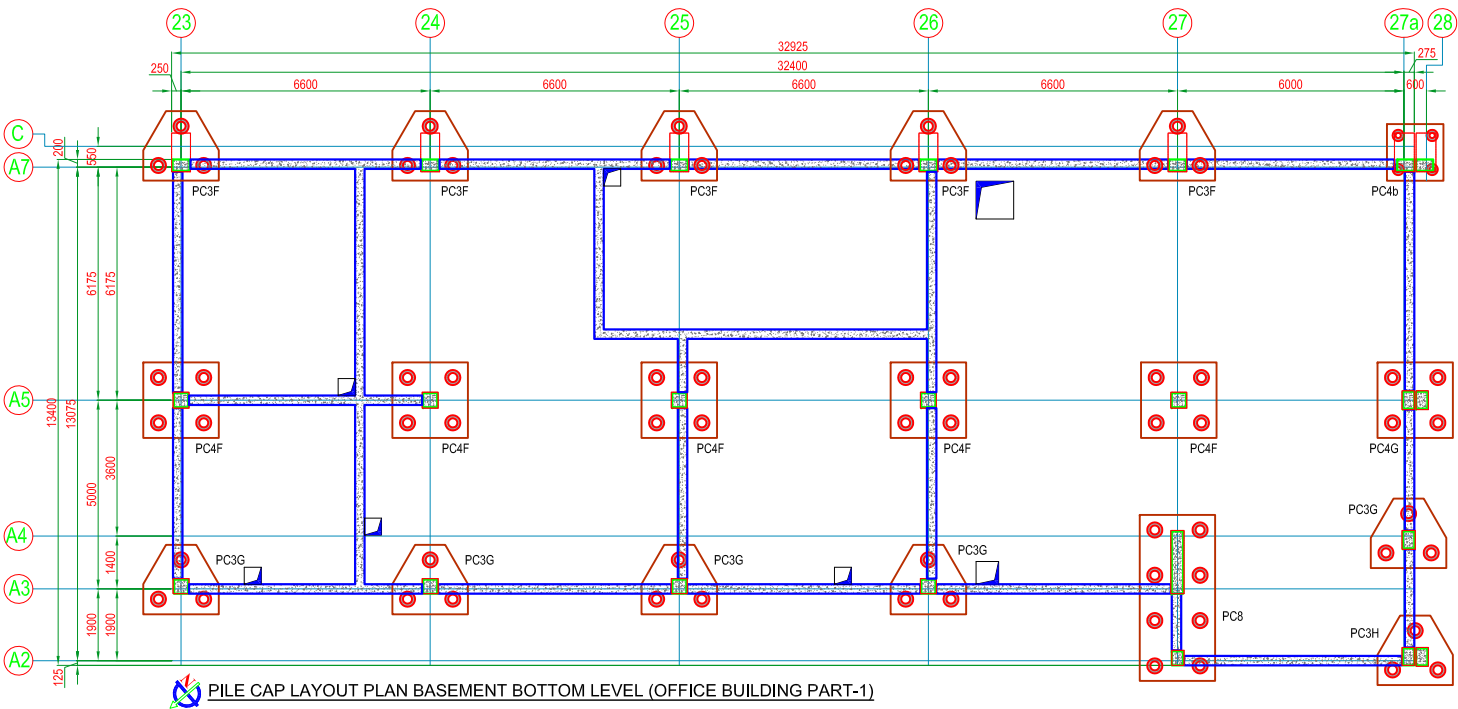
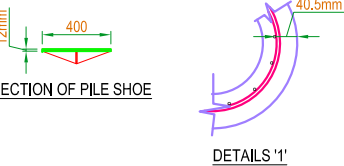
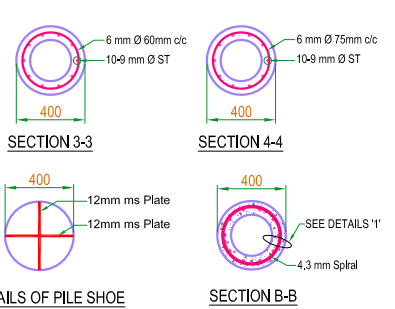
NOTE:
As per Code JIS A 5337-1987
For 300 dia. Spun piles
1. Outer Diameter
2. Wall thickness
3. Effective pre-stressed
4. Concrete minimum Strength
5. Verify Length Of Site From Driving Force Adjust Calculation



SCHEDULE OF PILE:

SL. NO.	LENGTH OF PILE (L)	LENGTH (L1)	LENGTH (L2)	VERTICAL REINF.	CAPACITY
P2	24000 mm	12000 mm	12000 mm	10-9 mm Ø	100 ton

NOTE:
As per Code JIS A 5337-1987
For 400 dia. Spun piles
1. Outer Diameter
2. Wall thickness
3. Effective pre-stressed
4. Concrete minimum Strength
5. Verify Length Of Site From Driving Force Adjust Calculation



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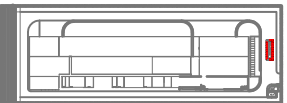
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LOCATION KEY PLAN (NOT TO SCALE)



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REVISION NO :

RE-00

DATE

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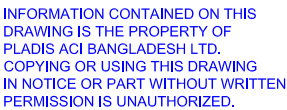
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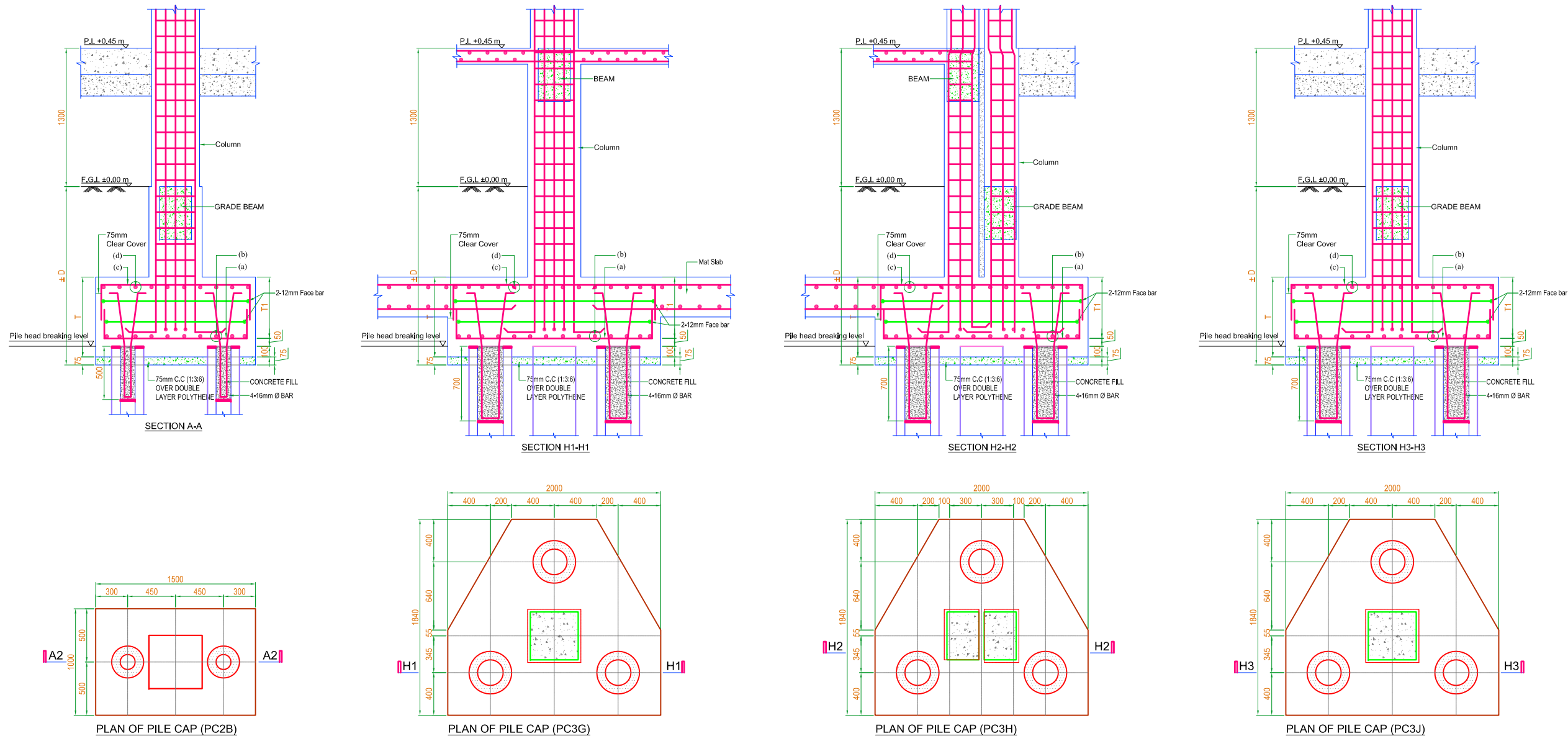
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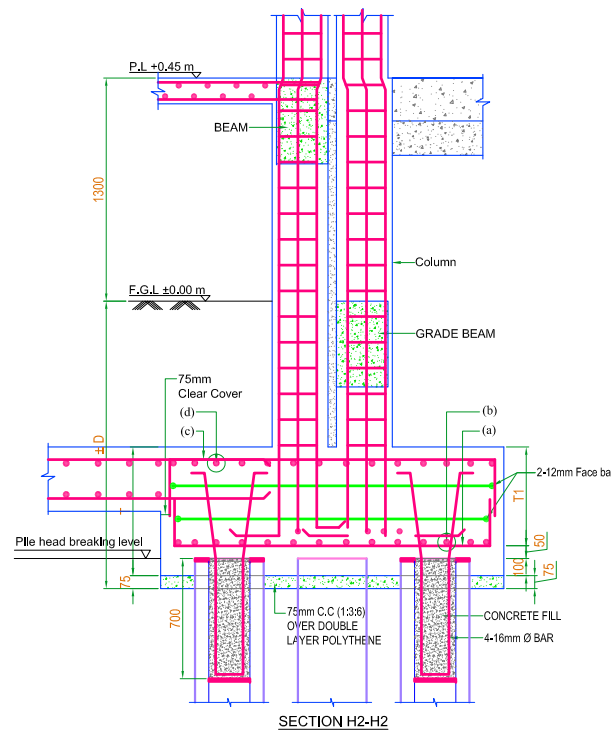
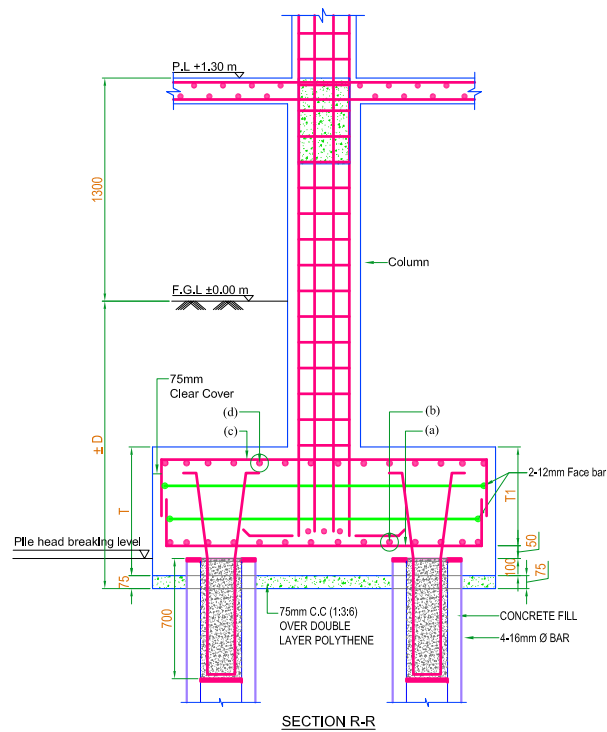
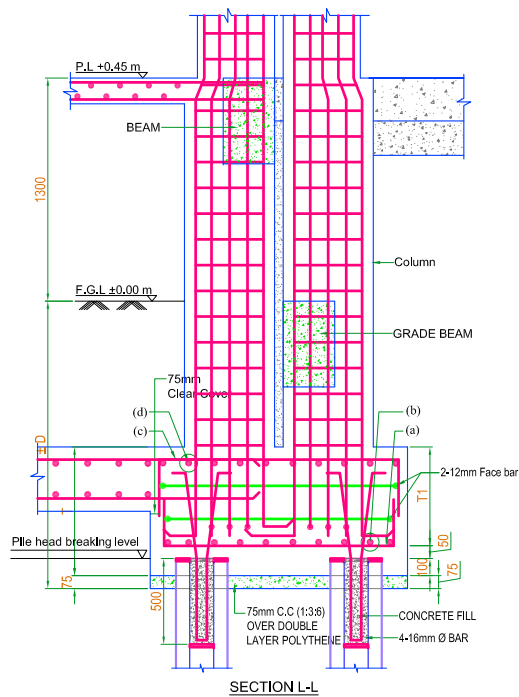
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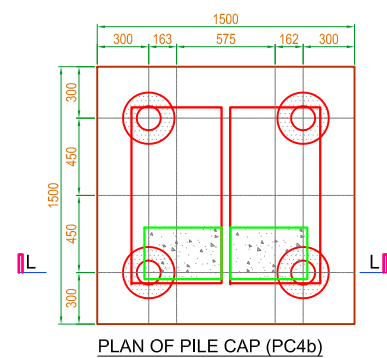
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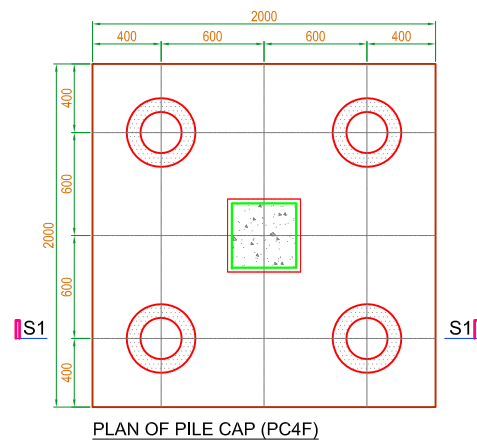


TYPE NO.	DEPTH (-D)	THICKNESS		BOTTOM REINF.	TOP REINF.	PILE TERMINATE LEVEL
		T	T1			
PC2B	-1.825m	600	450	16mm Ø @ 100mm c/c (a) 12mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-1.650m
PC3F	-3.775m	1000	850	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-3.600m
PC3G	-3.775m	1000	850	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-3.600m
PC3H	-3.775m	1000	850	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-3.600m
PC3J	-1.825m	900	750	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-1.650m
PC4b	-3.675m	900	750	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-3.500m
PC4F	-3.775m	1000	850	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-3.600m
PC4G	-3.775m	1000	850	16mm Ø @ 100mm c/c (a) 16mm Ø @ 150mm c/c (b)	12mm Ø @ 100mm c/c (c) 12mm Ø @ 150mm c/c (d)	-3.600m

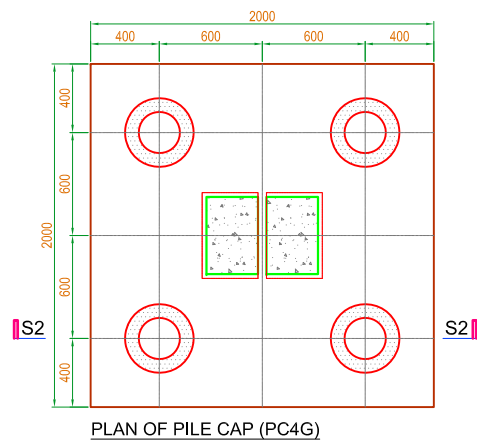
NOTES FOR PILE CAP:
 $f_y = 72.5 \text{ ksi}$, $f_c = 4.5 \text{ ksi}$ (CYLINDER STRENGTH)
 USING STONE CHIPS FOR PILE CAP CASTING.
 CLEAR COVER FOR PILECAP = 75mm



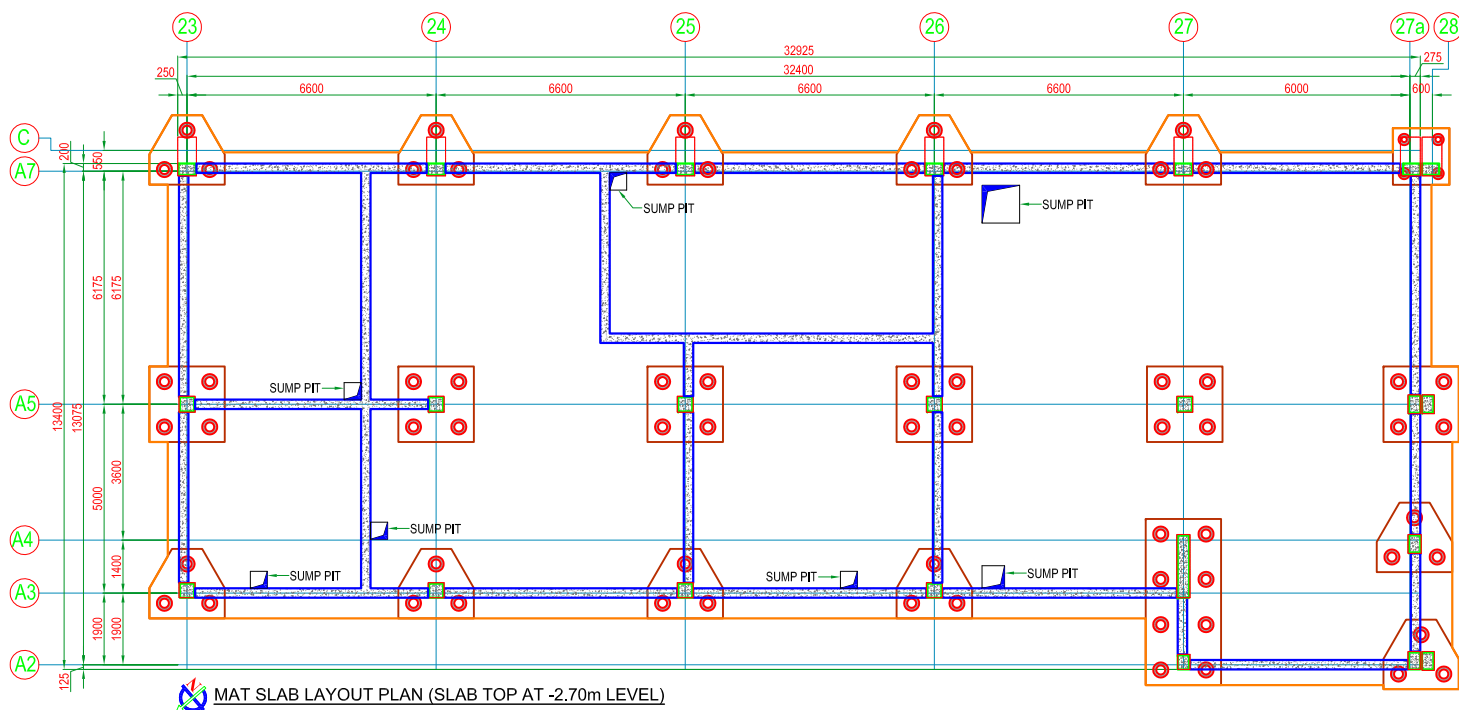
PLAN OF PILE CAP (PC4b)




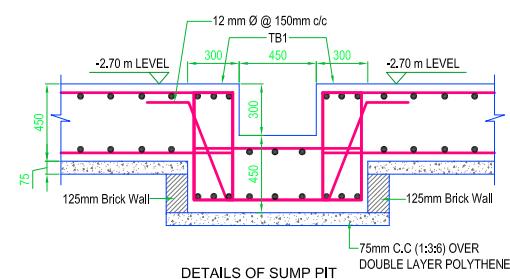
PLAN OF PILE CAP (PC4F)



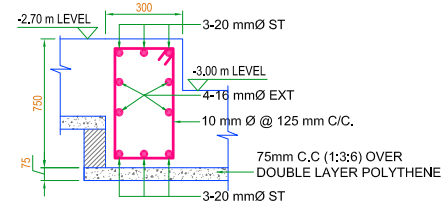
PLAN OF PILE CAP (PC4G)



 MAT SLAB LAYOUT PLAN (SLAB TOP AT -2.70m LEVEL)



DETAILS OF SUMP PIT



CROSS SECTION OF TIE
BEAM (TB1) (TYPICAL)

NOTE:
BEAM LENGTH = SUMP PIT
SIZE+2X450mm

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PLADIS ACI BANGLADESH LTD.**
AT BANGLADESH SPECIAL ECONOMIC
ZONE IN ARAIHAZAR, NARAYANGANJ,
BANGLADESH.

CLIENT

PLADIS ACI BANGLADESH LTD.
ACI CENTER,
245, TEJGAON I/A,
DHAKA-1208, BANGLADESH.

CONSULTANT



HOUSE # 02, (3RD FLOOR), ROAD #18,
SECTOR-12, UTTARA, DHAKA-1230,
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CELL:+8801552375992,+880173350194
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sdalimited@sda-bd.com

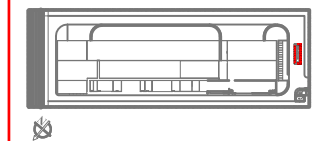
ARCHITECTURAL TEAM

MD. MEHEDI ZAMAN
B.Arch (KU) AMIAB(AZ-013)

STRUCTURAL DESIGN BY

ACHINTYA KUMAR SAHA
B.Sc. ENGG. (CIVIL). BUET, FIEB - 10387

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DRAWING BY :

MD. IBRAHIM KHALIL

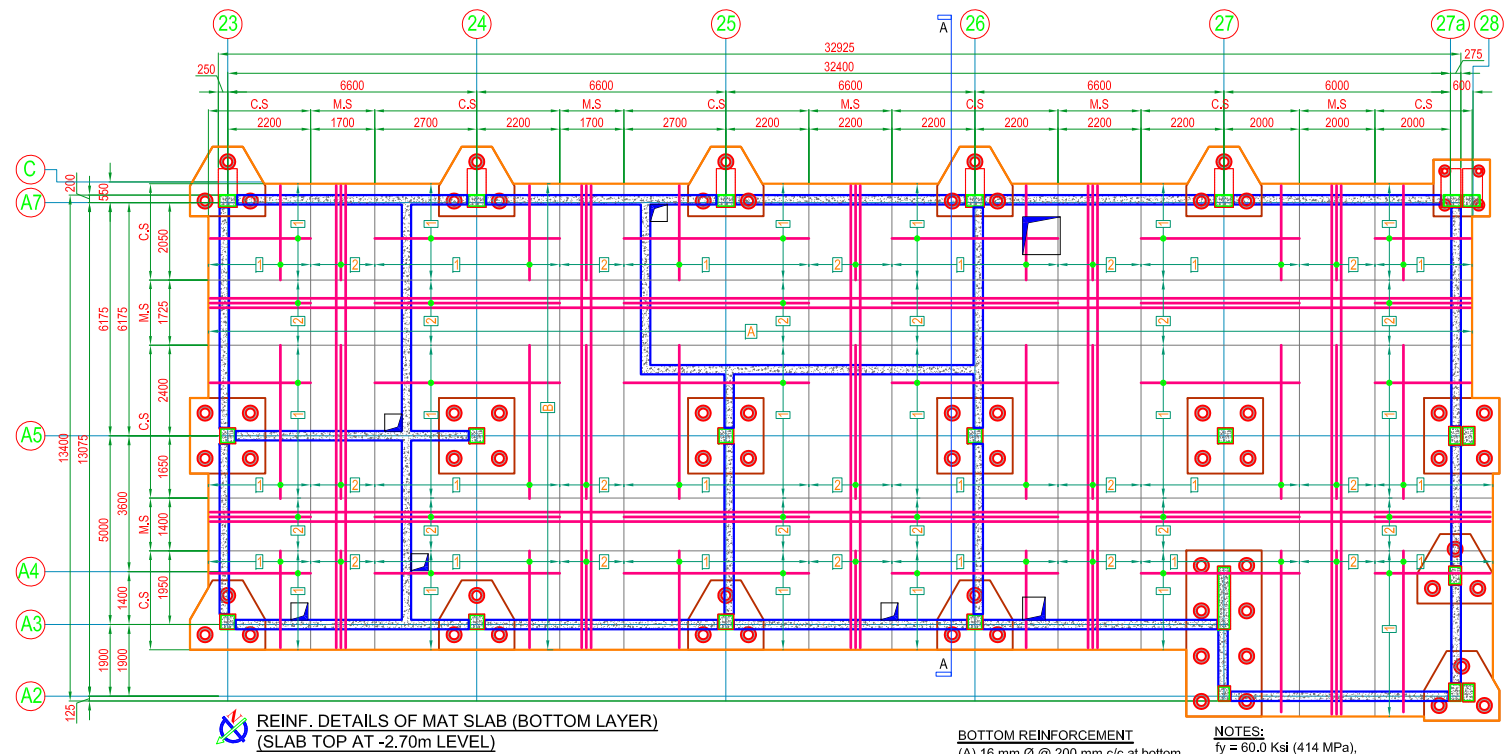
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SCALE : AS NOTED

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REVISION NO : RE-00

DATE : FEBRUARY -24 - 2024



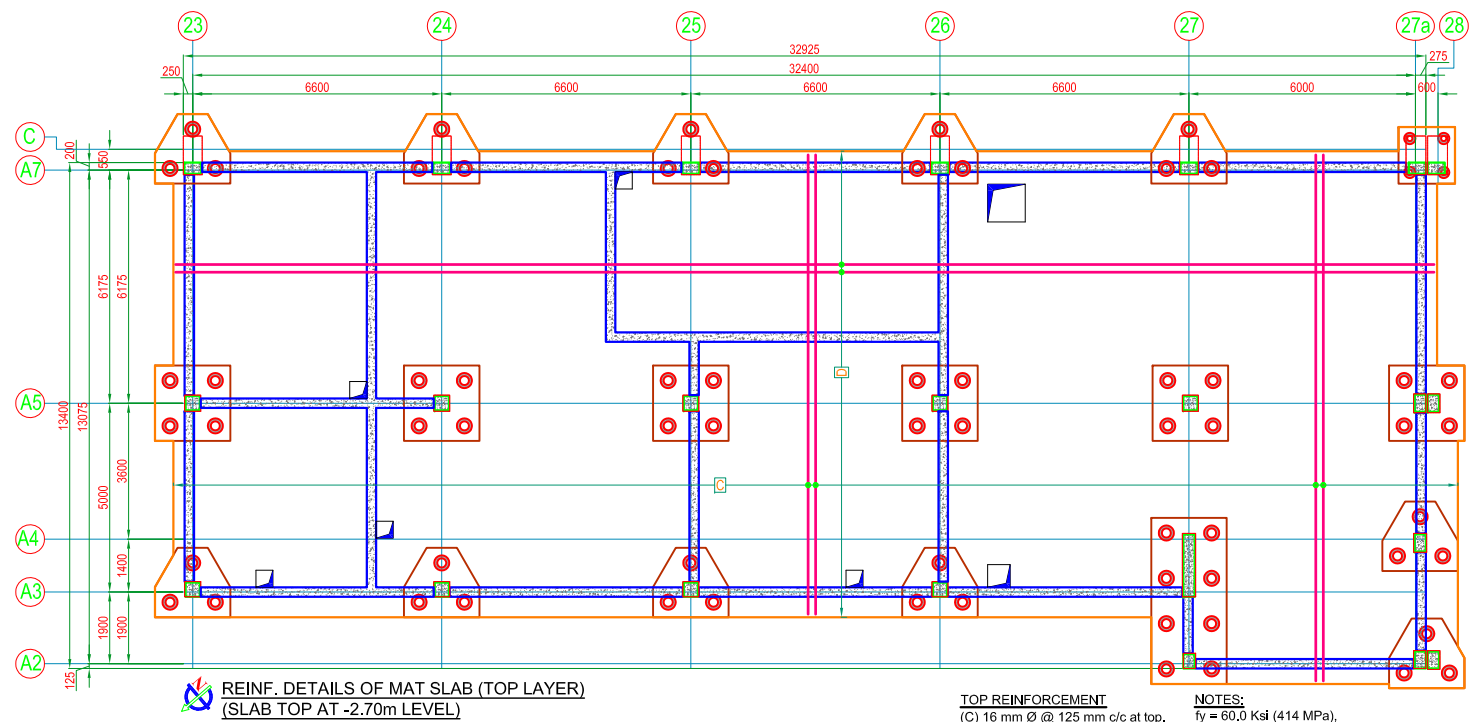
BOTTOM REINFORCEMENT

- (A) 16 mm \varnothing @ 200 mm c/c at bottom.
(B) 16 mm \varnothing @ 200 mm c/c at bottom.
(1) 1-16 mm \varnothing Extra bottom.
(2) 1-12 mm \varnothing Extra bottom.

SLAB THICKNESS = 450 MM

NOTES:

$f_y = 60.0$ Ksi (414 MPa),
 $f'_c = 4.5$ Ksi (31.02 MPa)
CASTING RATIO :
CEMENT : SAND : AGGREGATE - 1:1.5:3
USING STONE CHIPS FOR SLAB CASTING.
CLEAR COVER FOR SLAB BOTTOM = 75mm



TOP REINFORCEMENT

- (C) 16 mm \varnothing @ 125 mm c/c at top.
(D) 12 mm \varnothing @ 125 mm c/c at top.

SLAB THICKNESS = 450 MM

NOTES:

$f_y = 60.0$ Ksi (414 MPa),
 $f'_c = 4.5$ Ksi (31.02 MPa)
CASTING RATIO :
CEMENT : SAND : AGGREGATE - 1:1.5:3
USING STONE CHIPS FOR SLAB CASTING.
CLEAR COVER FOR SLAB TOP = 50mm

PROJECT

**MARIGOLD PROJECT FOR
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AT BANGLADESH SPECIAL ECONOMIC
ZONE IN ARAHAZAR, NARAYANGANJ,
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CLIENT

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DHAKA-1208, BANGLADESH.

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DRAWING REF. NO :

SDA/521/18/1/MARIGOLD PROJECT/OB-02

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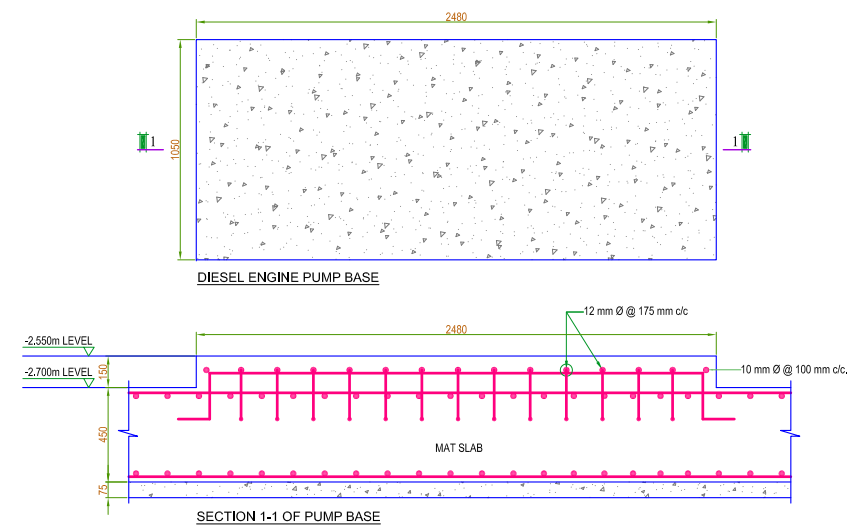
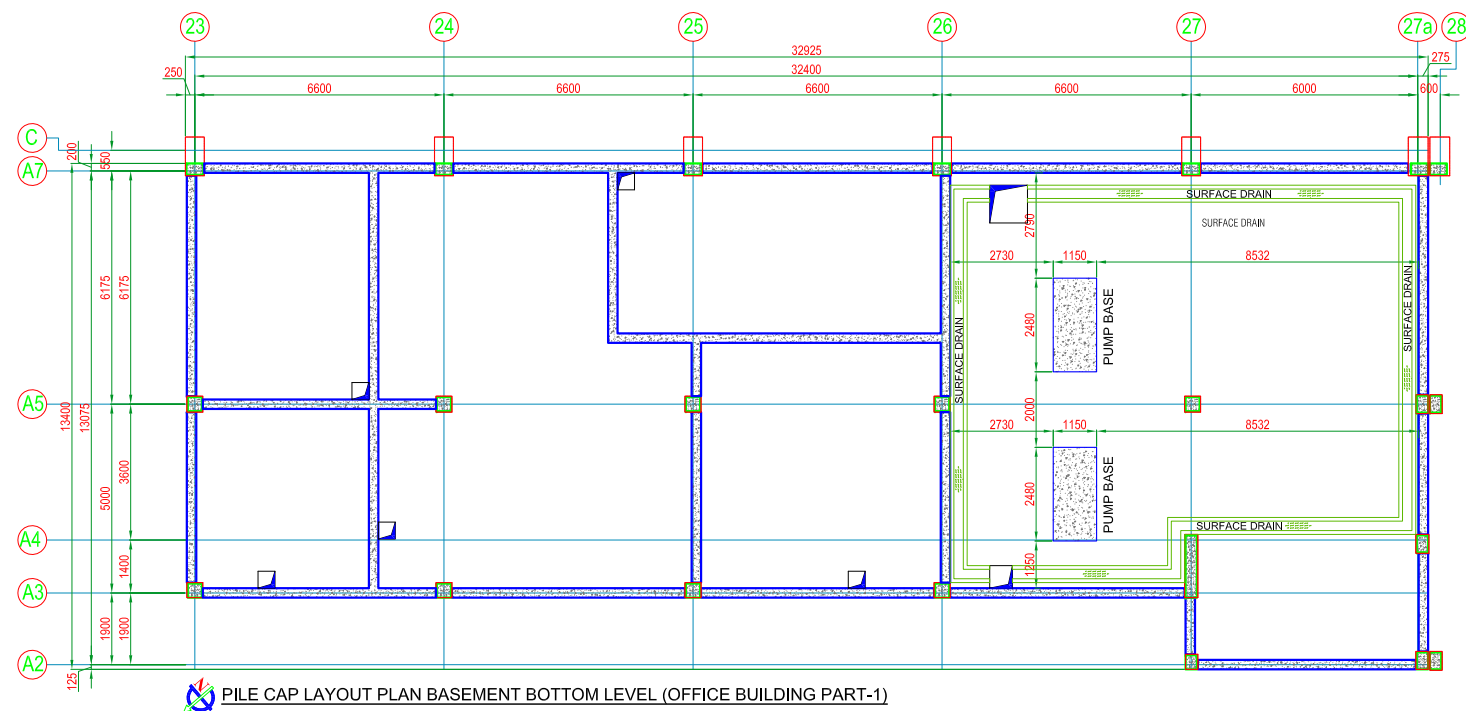
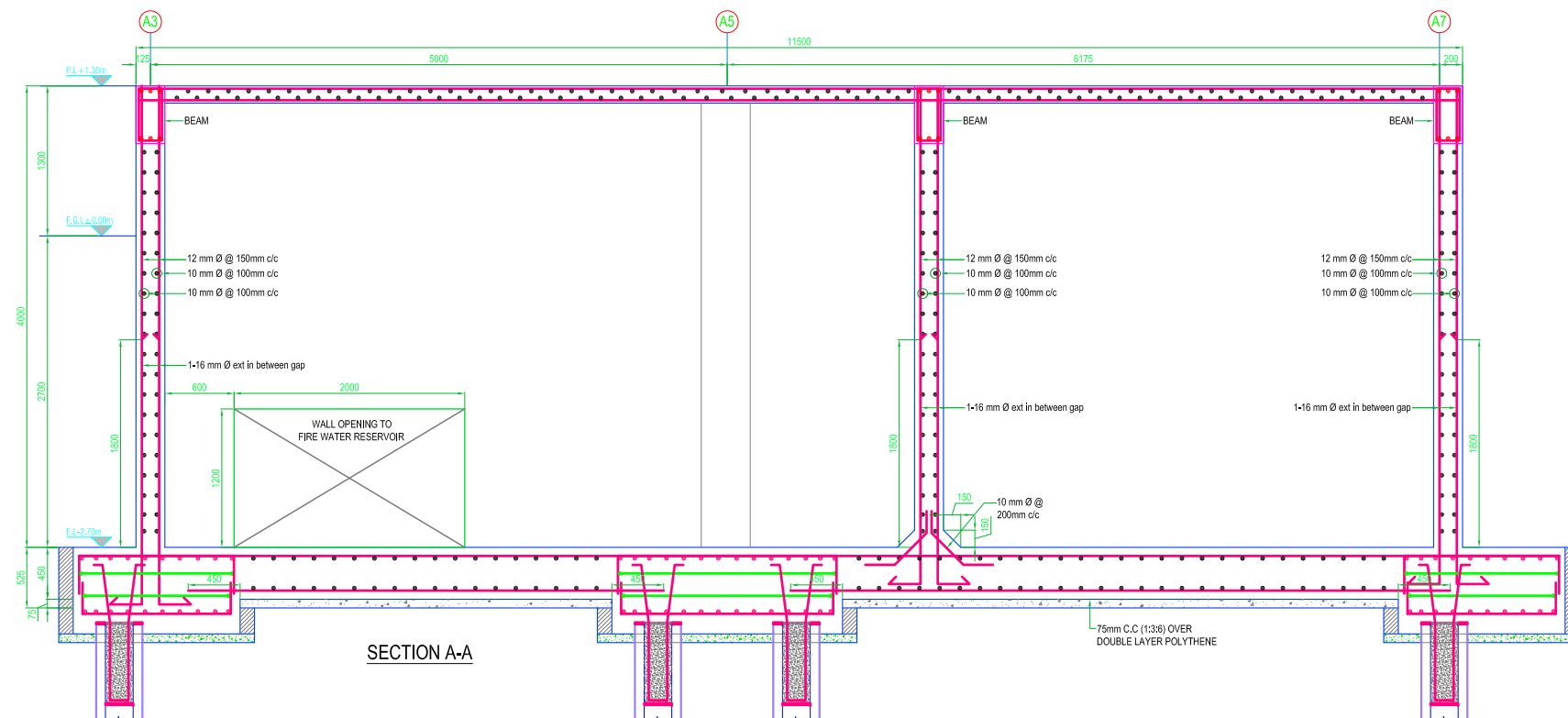
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DATE

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PROJECT

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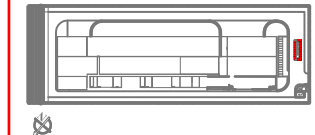
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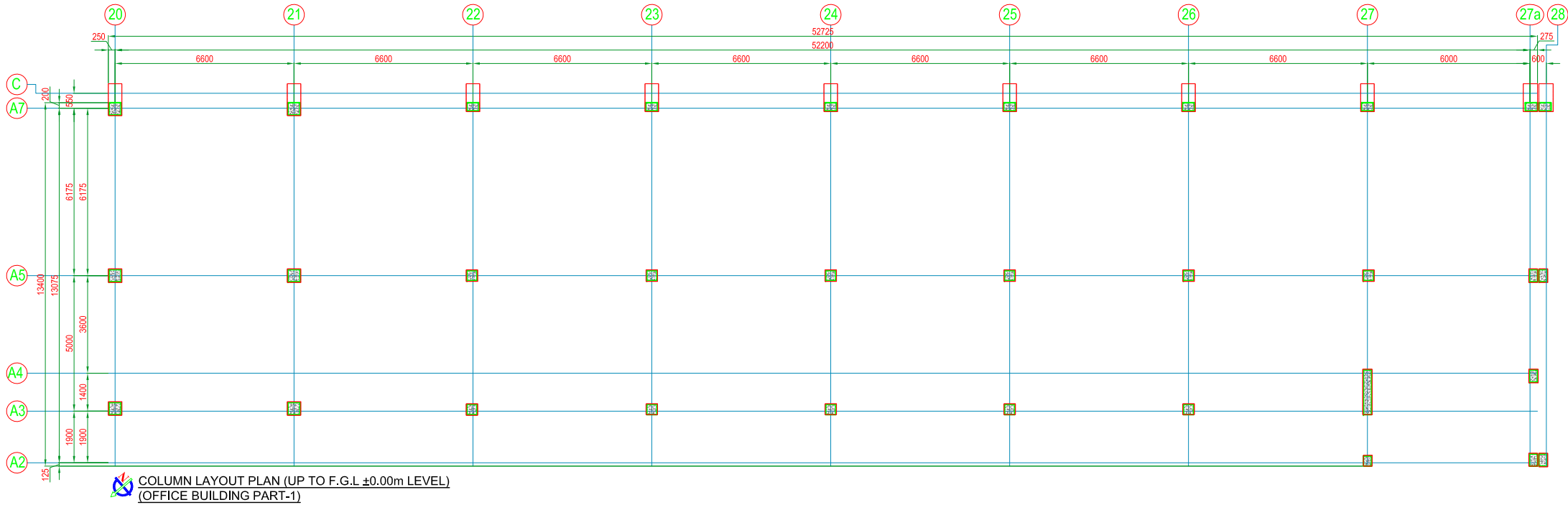
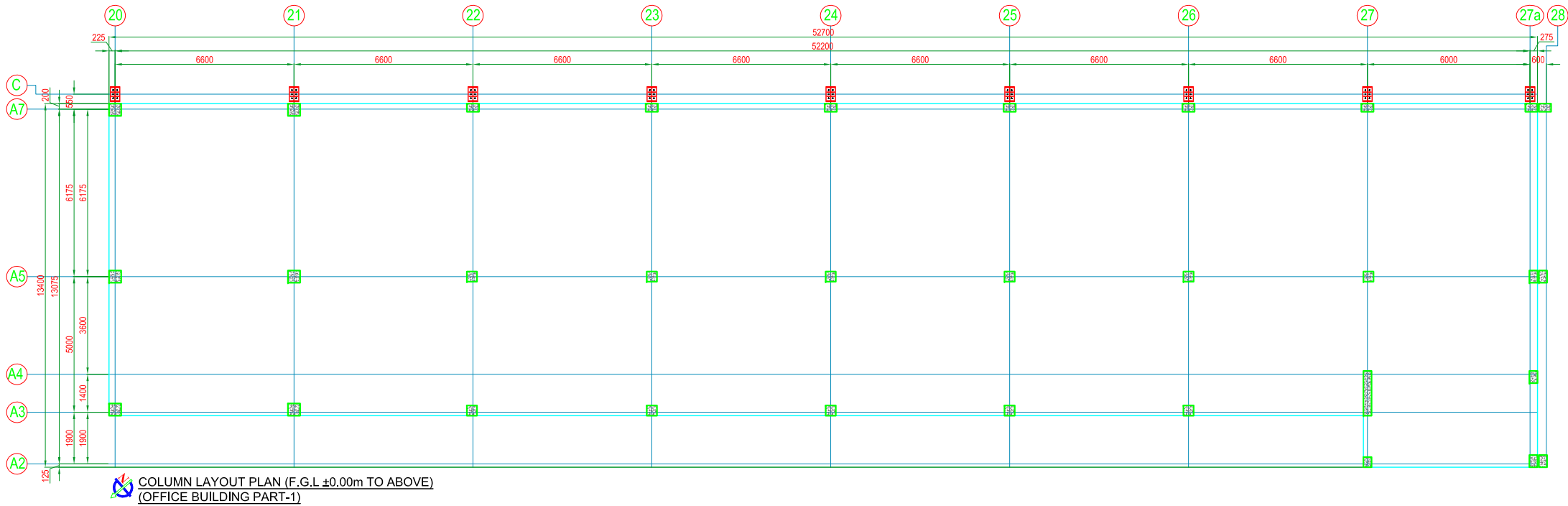
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SCALE : AS NOTED

SHEET NO : ST_206

REVISION NO : RE-00

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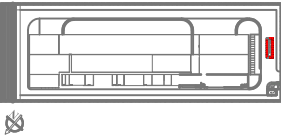
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SCALE :

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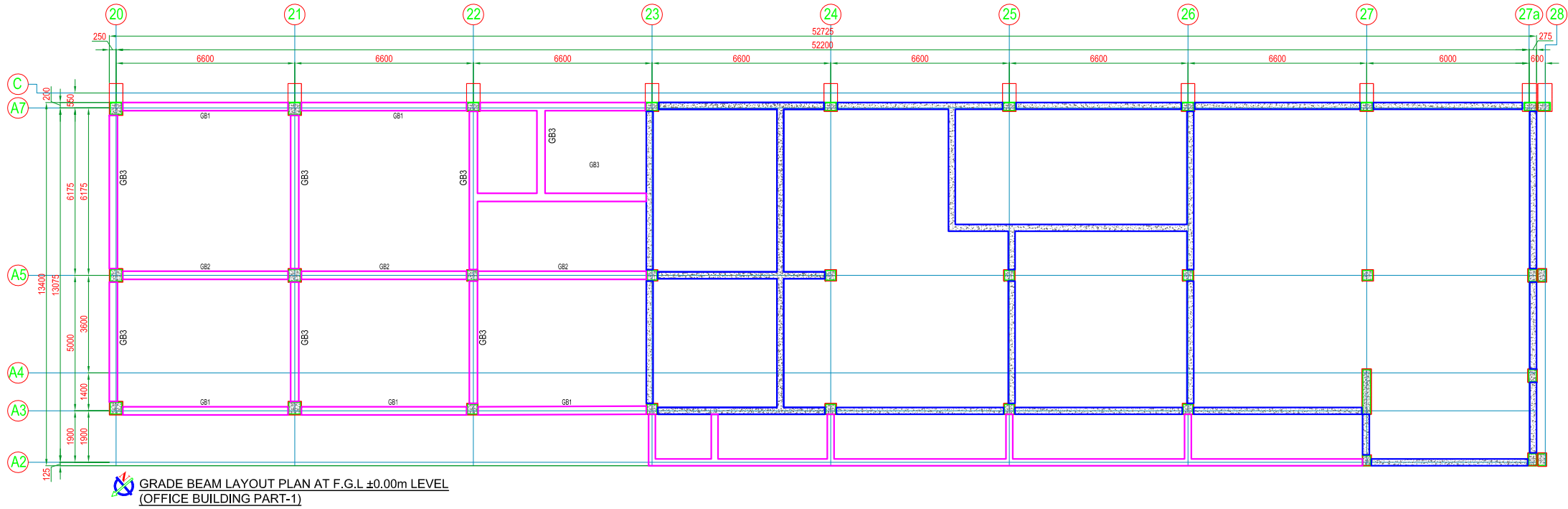
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REVISION NO :

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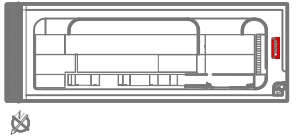
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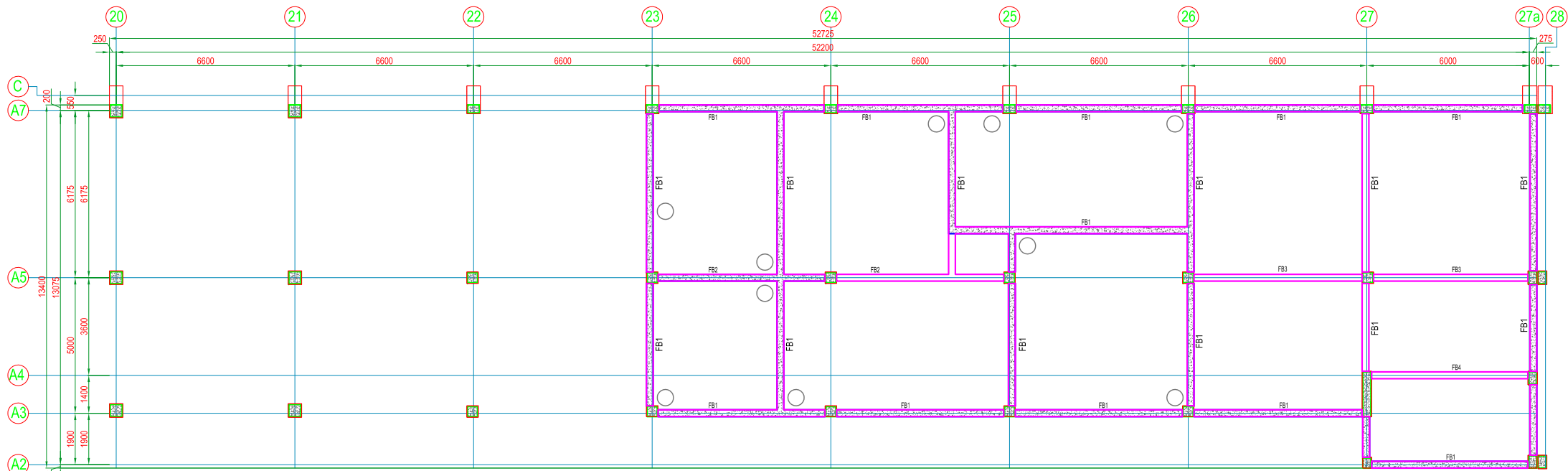
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SCALE : AS NOTED

SHEET NO : ST_208

REVISION NO : RE-00

DATE : FEBRUARY - 24 - 2024



UNDER GROUND WATER TANK TOP SLAB BEAM LAYOUT PLAN
(AT BEAM TOP +1.30 m LEVEL) (OFFICE BUILDING PART-1)

PROJECT

MARIGOLD PROJECT FOR
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AT BANGLADESH SPECIAL ECONOMIC
ZONE IN ARAHAZAR, NARAYANGANJ,
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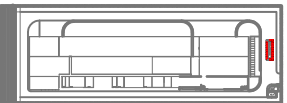
ARCHITECTURAL TEAM

MD. MEHEDI ZAMAN
B.Arch (KU) AMIAB(AZ-013)

STRUCTURAL DESIGN BY

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UTILITY BUILDING AREA LAYOUT PLAN

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MD. IBRAHIM KHALIL

DRAWING REF. NO :

SDA/521/18/1/MARIGOLD PROJECT/OB-02

SCALE :

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SHEET NO :

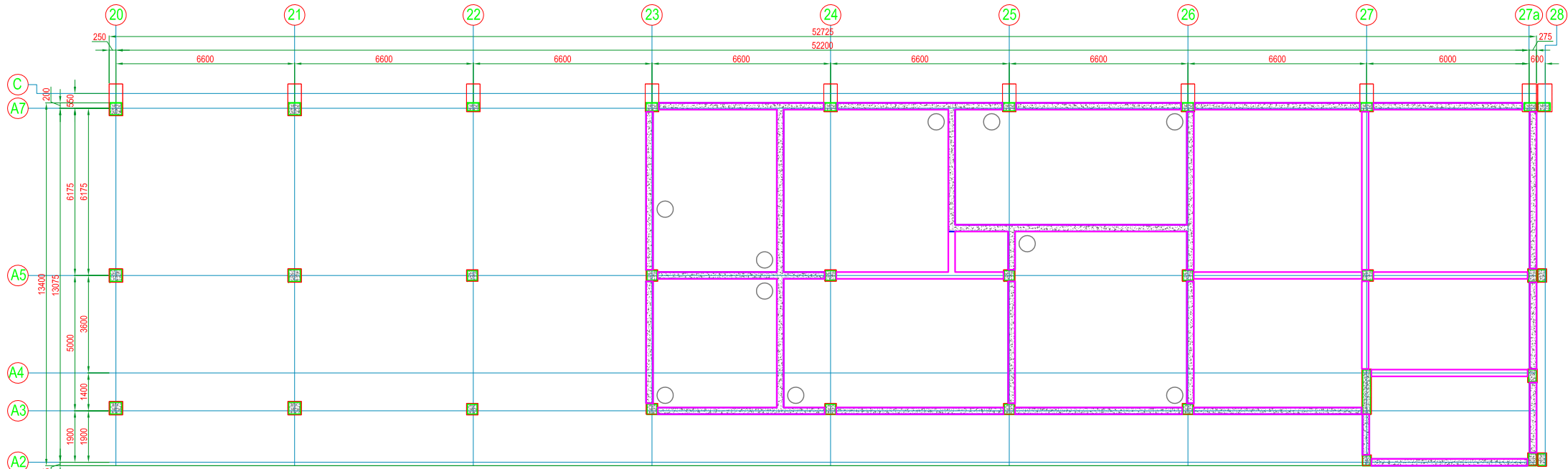
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REVISION NO :

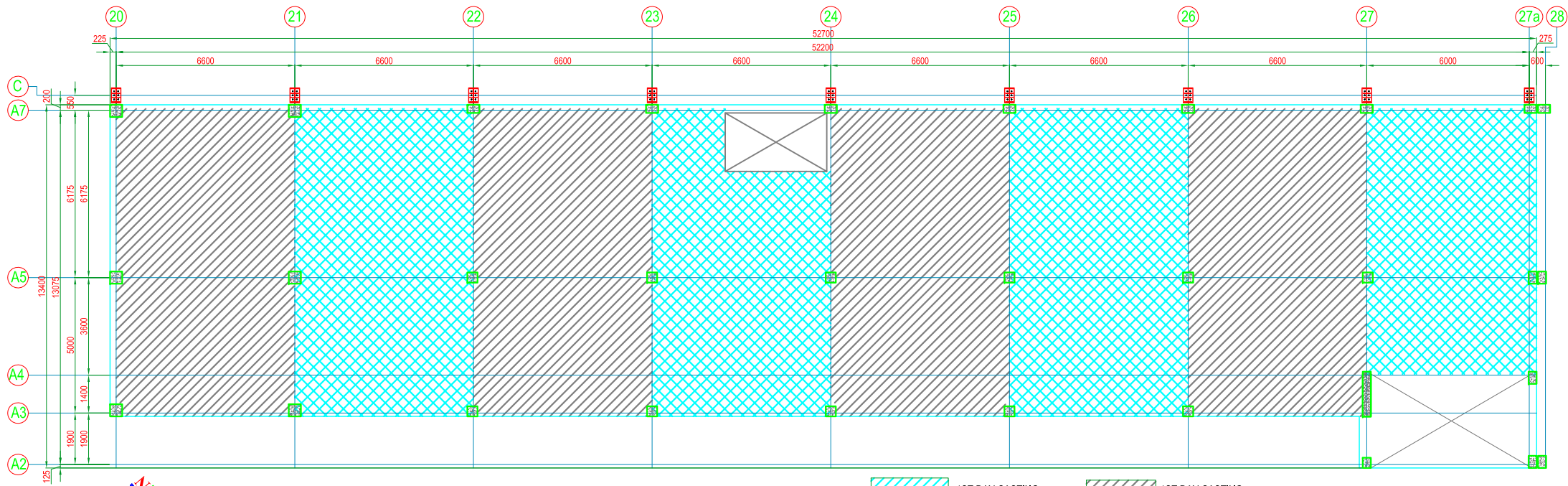
RE-00

DATE

FEBRUARY - 24 - 2024



REINF. DETAILS OF UNDER GROUND WATER TANK TOP SLAB
(AT SLAB TOP +1.30 m LEVEL) (OFFICE BUILDING PART-1)



OFFICE BUILDING GROUND FLOOR SLAB LAYOUT PLAN AT +1.30m LEVEL (GRID 20-27a)

1ST DAY CASTING 1ST DAY CASTING

PROJECT

MARIGOLD PROJECT FOR
PLADIS ACI BANGLADESH LTD.
AT BANGLADESH SPECIAL ECONOMIC
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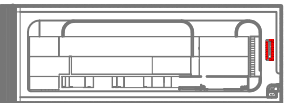
ARCHITECTURAL TEAM

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REVISION NO :

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DATE

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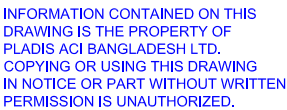
CONSULTANT



ARCHITECTURAL TEAM

STRUCTURAL DESIGN BY

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UTILITY BUILDING AREA LAYOUT PLAN

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MD. IBRAHIM KHALIL

DRAWING REF. NO :
SDA/521/18/1/MARIGOLD PROJECT/OB-02

SCALE : AS NOTED

SHEET NO : ST_211

REVISION NO : RE-00

DATE : FEBRUARY - 24 - 2024



REINFORCEMENT DETAILS OF UTILY BUILDING INTERMEDIA FLOOR ROOF SLAB AT SLAB TOP +4.90m LEVEL (GRID 20-27a)

REINFORCEMENT

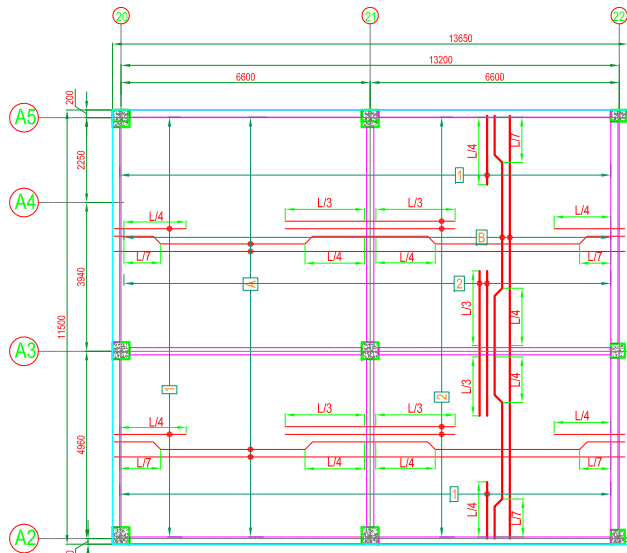
- (A) 10mm \varnothing @ 125mm c/c in alt ckd.
- (B) 10mm \varnothing @ 125mm c/c in alt ckd.
- (C) 10mm \varnothing @ 150mm c/c at top & bottom.
- (1) 1-10mm \varnothing Ext top in between ckd.
- (2) 2-10mm \varnothing Ext top in between ckd.

**SLAB THICKNESS = 165 MM
UNLESS OTHERWISE MENTIONED**

NOTES:
 $f'_c = 4.5 \text{ KSI (31.02 Mpa)}$, $f_y = 60 \text{ KSI (414 Mpa)}$
 USE READY MIX FOR SLAB CASTING
 CLEAR COVER FOR SLAB=25MM



OFFICE BUILDING GROUND FLOOR ROOF BEAM AND UTILITY BUILDING INTERMEDIATE BEAM LAYOUT PLAN AT +4.90m LEVEL (GRID 20-27a)

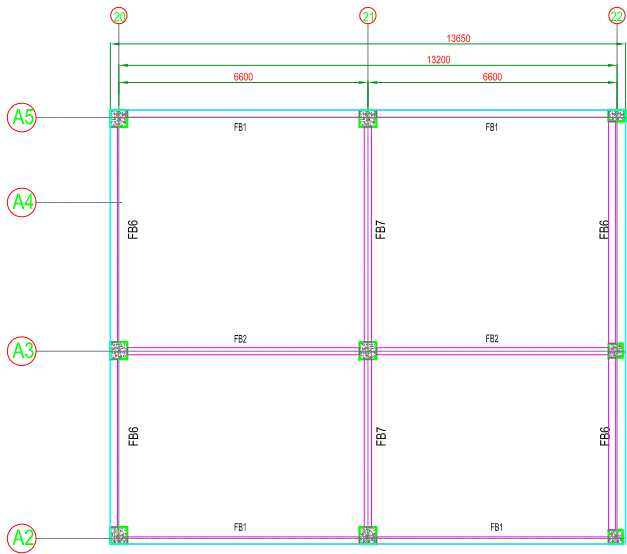


REINFORCEMENT DETAILS OF UTILITY BUILDING GROUND FLOOR ROOF SLAB AT SLAB TOP +8.50m LEVEL (GRID 20-22)

REINFORCEMENT
(A) 10mm ϕ @ 125mm c/c in alt ckd.
(B) 10mm ϕ @ 125mm c/c in alt ckd.
(C) 10mm ϕ @ 150mm c/c at top & bottom.
(1) 1-10mm ϕ Ext top in between ckd.
(2) 2-10mm ϕ Ext top in between ckd.
NOTE:
BINDER IS NOT SHOWN IN THE
DRAWING 10 mm ϕ @ 250mm C/C.

**SLAB THICKNESS = 165 MM
UNLESS OTHERWISE MENTIONED**

NOTES:
 $f_c = 4.5$ KSI (31.02 Mpa), $f_y = 60$ KSI (414 Mpa)
USE READY MIX FOR SLAB CASTING
CLEAR COVER FOR SLAB=25MM



UTILITY BUILDING GROUND FLOOR ROOF BEAM LAYOUT PLAN AT +7.30m LEVEL (GRID 20-22)

PROJECT

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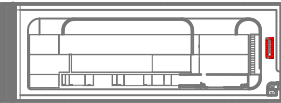
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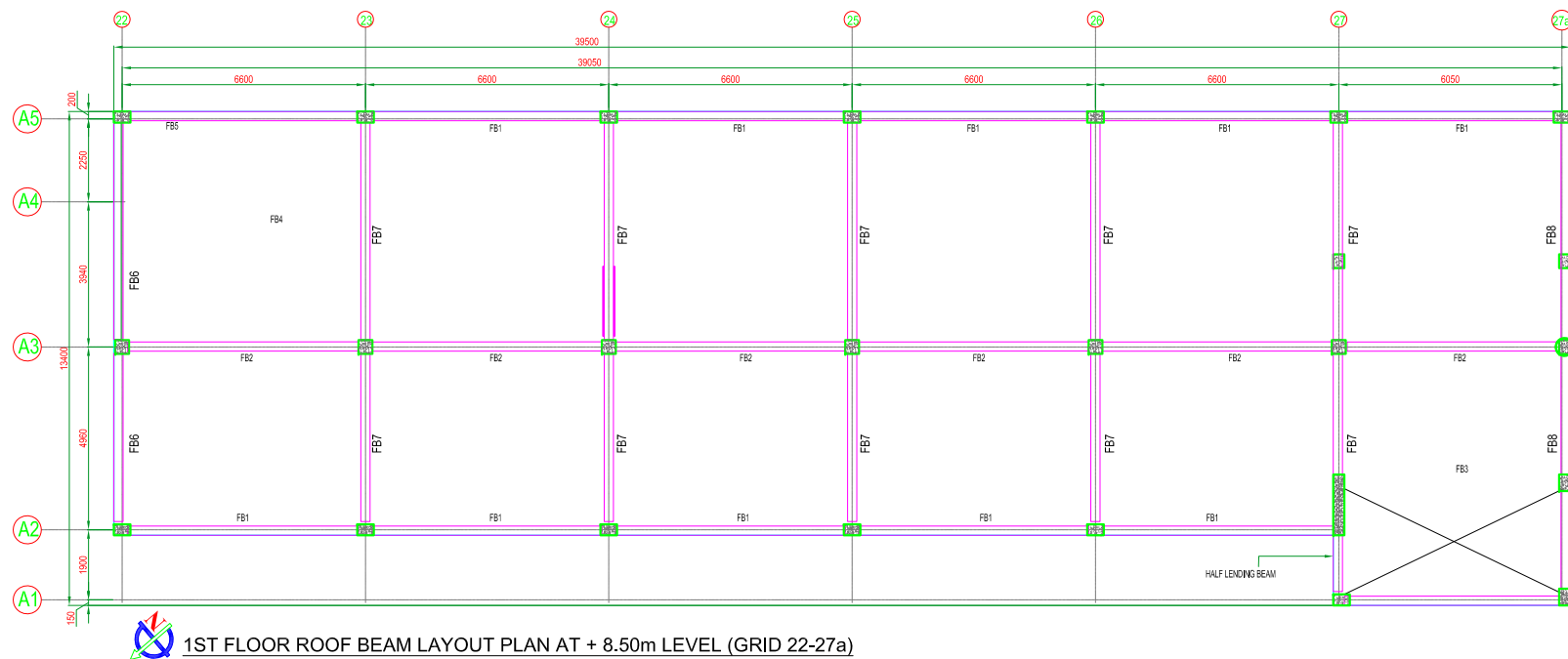
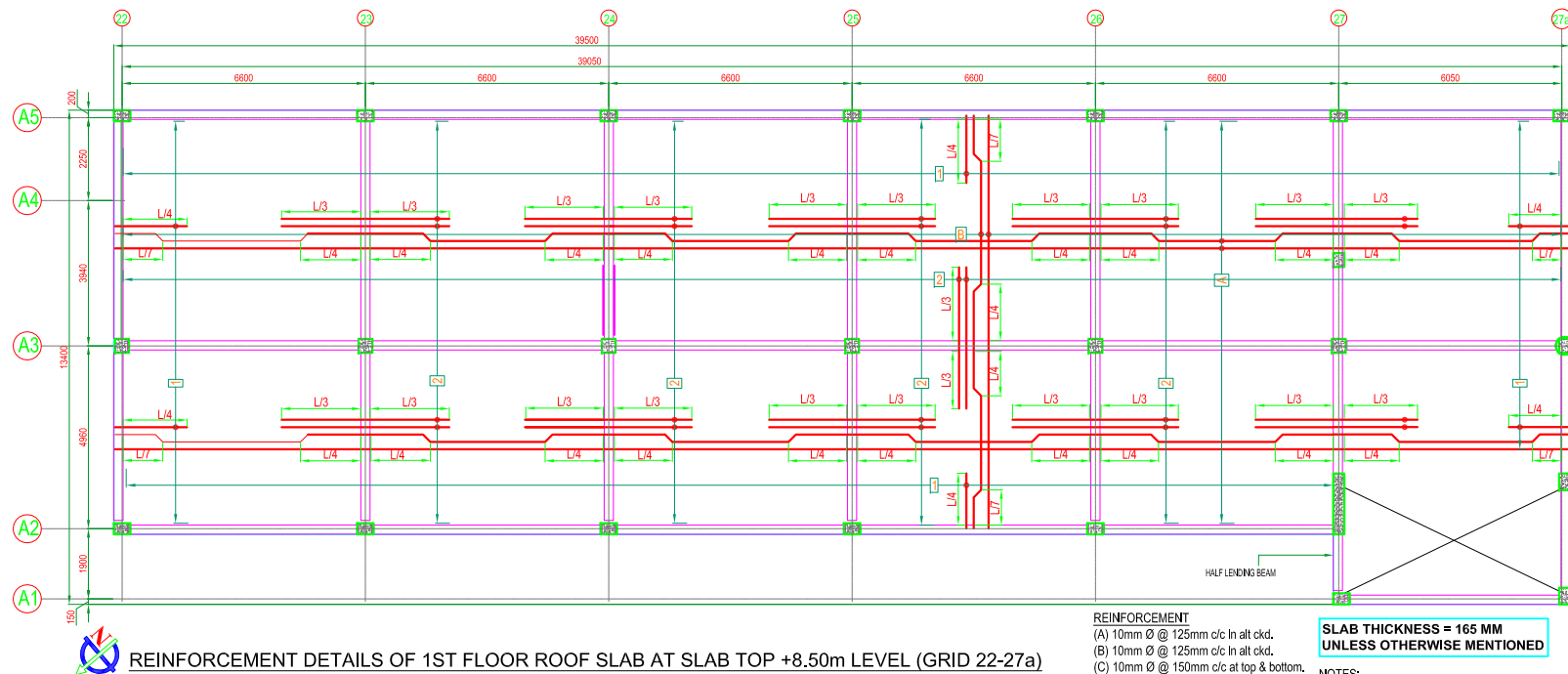
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REVISION NO : RE-00

DATE : FEBRUARY - 24 - 2024



PROJECT

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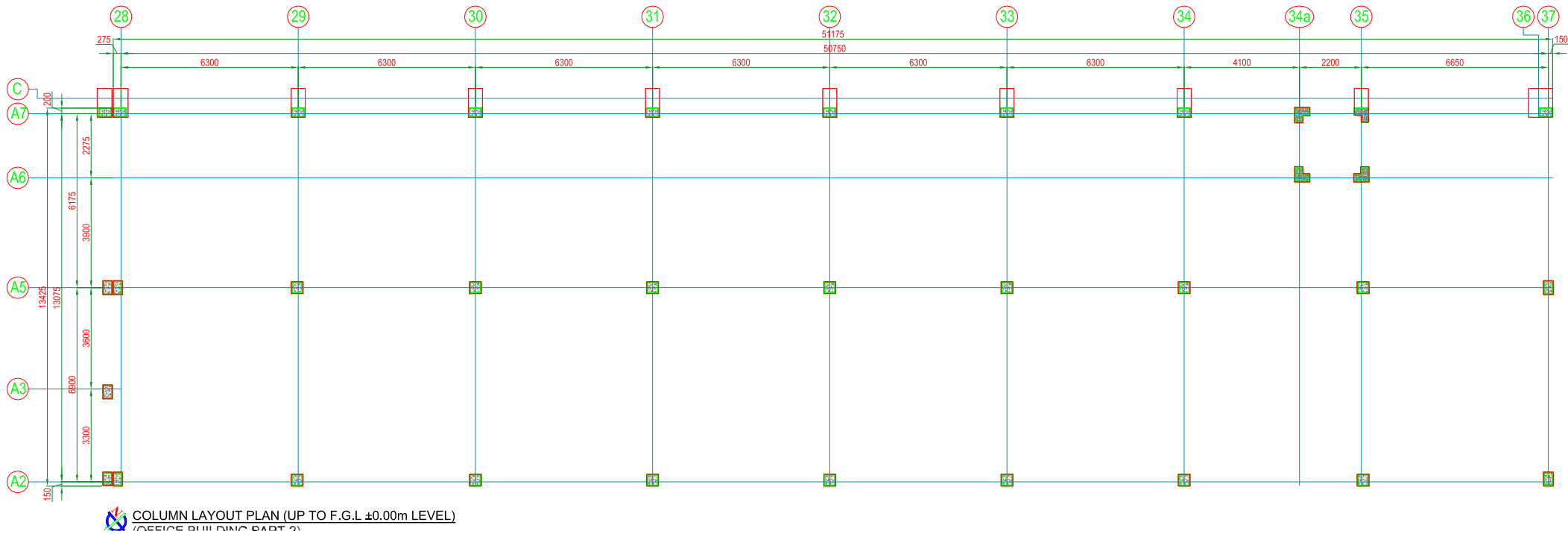
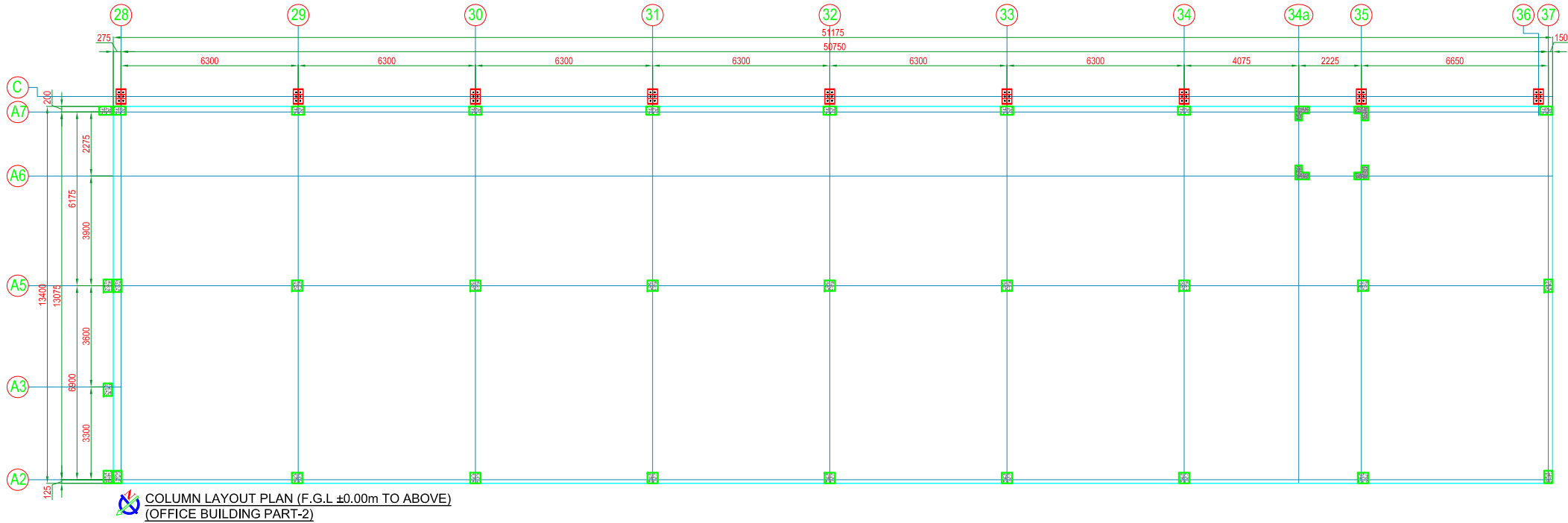
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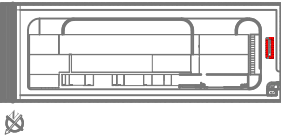
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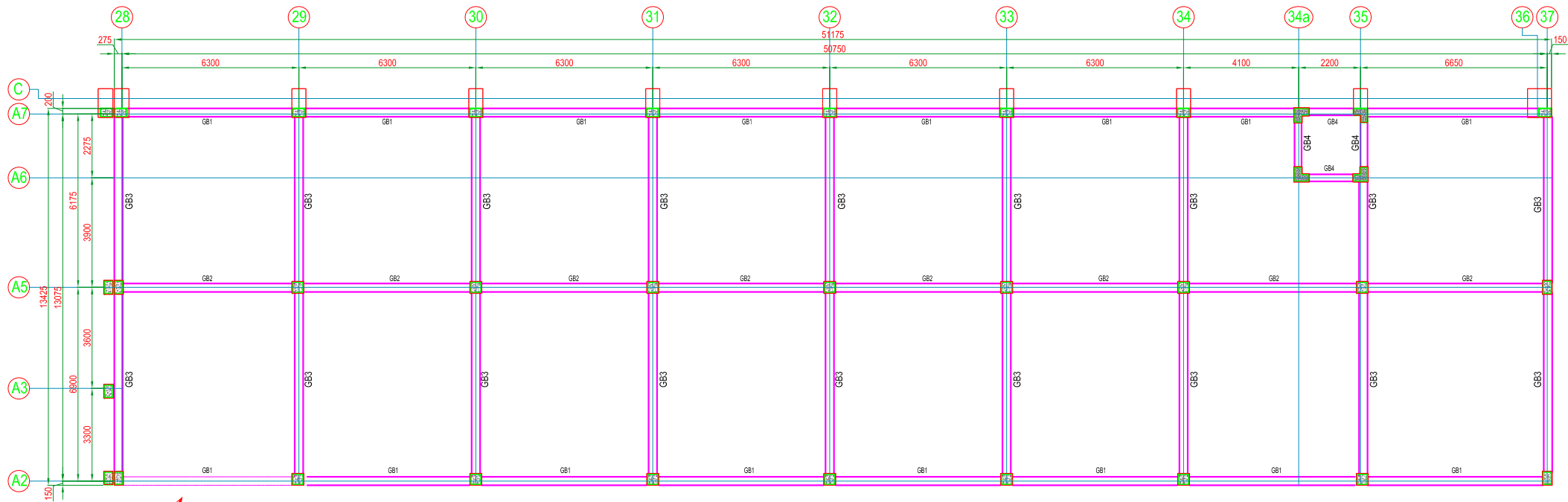
SDA/521/18/1/MARIGOLD PROJECT/OB-02


SCALE : AS NOTED

SHEET NO : ST_214

REVISION NO : RE-00

DATE : FEBRUARY - 24 - 2024



 **GRADE BEAM LAYOUT PLAN (GB TOP at ±0.00m LEVEL) (GRID 28-36)**

PROJECT

**MARIGOLD PROJECT FOR
PLADIS ACI BANGLADESH LTD.**
AT BANGLADESH SPECIAL ECONOMIC
ZONE IN ARAHAZAR, NARAYANGANJ,
BANGLADESH.

CLIENT

PLADIS ACI BANGLADESH LTD.
ACI CENTER,
245, TEJGAON I/A,
DHAKA-1208, BANGLADESH.

CONSULTANT



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STRUCTURAL DESIGN BY

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LOCATION KEY PLAN (NOT TO SCALE)



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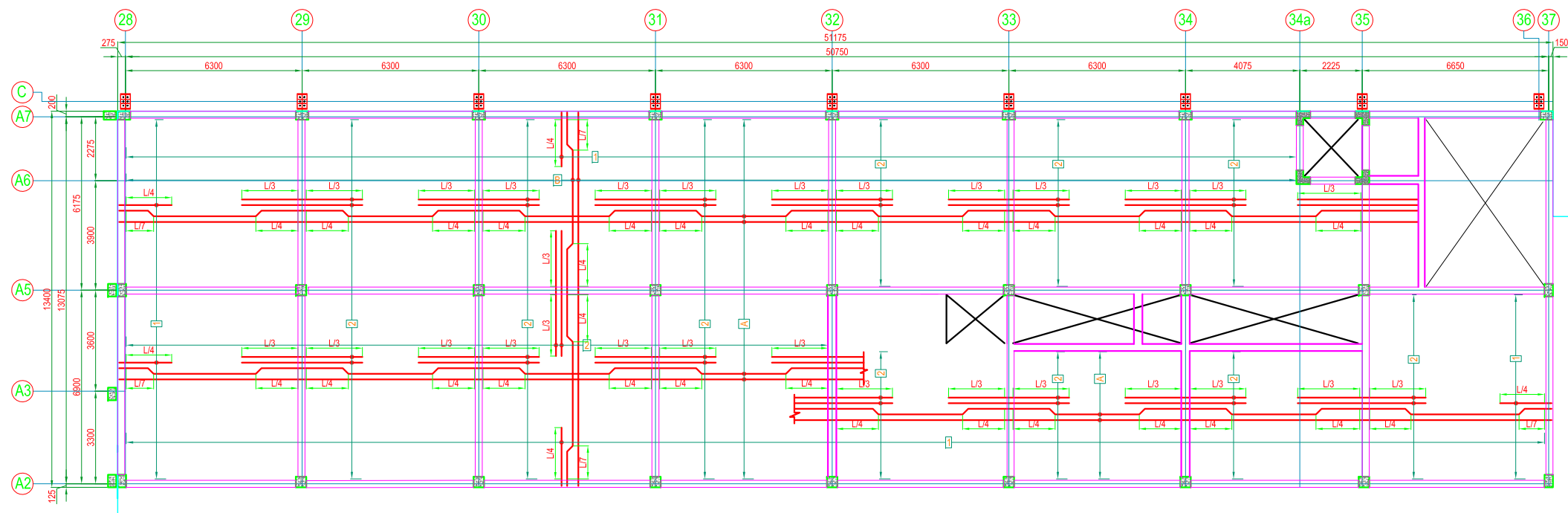
SDA/521/18/1/MARIGOLD PROJECT/OB-02

SCALE : AS NOTED

SHEET NO : **ST_215**

REVISION NO : **RE-00**

DATE : **FEBRUARY - 24 - 2024**



REINFORCEMENT DETAILS OF OFFICE BUILDING GROUND FLOOR ROOF SLAB AT SLAB TOP +4.90m LEVEL (GRID 28-36)

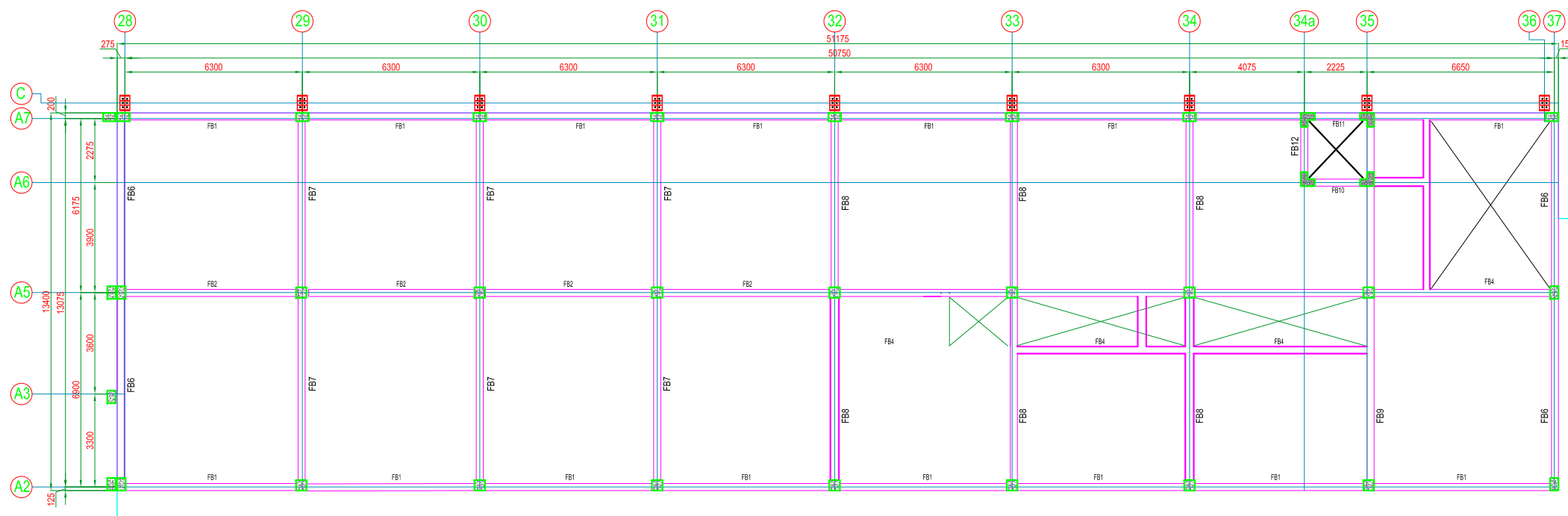
REINFORCEMENT

- (A) 10mm ϕ @ 125mm c/c in alt ckd.
(B) 10mm ϕ @ 125mm c/c in alt ckd.
(C) 10mm ϕ @ 150mm c/c at top & bottom.
(1) 1-10mm ϕ Ext top in between ckd.
(2) 2-10mm ϕ Ext top in between ckd.

NOTE:
BINDER IS NOT SHOWN IN THE
DRAWING 10 mm ϕ @ 250mm C/C.

SLAB THICKNESS = 165 MM
UNLESS OTHERWISE MENTIONED

NOTES:
 $f_c = 4.5$ KSI (31.02 Mpa), $f_y = 60$ KSI (414 Mpa)
USE READY MIX FOR SLAB CASTING
CLEAR COVER FOR SLAB=25MM



OFFICE BUILDING GROUND FLOOR ROOF BEAM LAYOUT PLAN AT +4.90m LEVEL (GRID 28-36)

PROJECT

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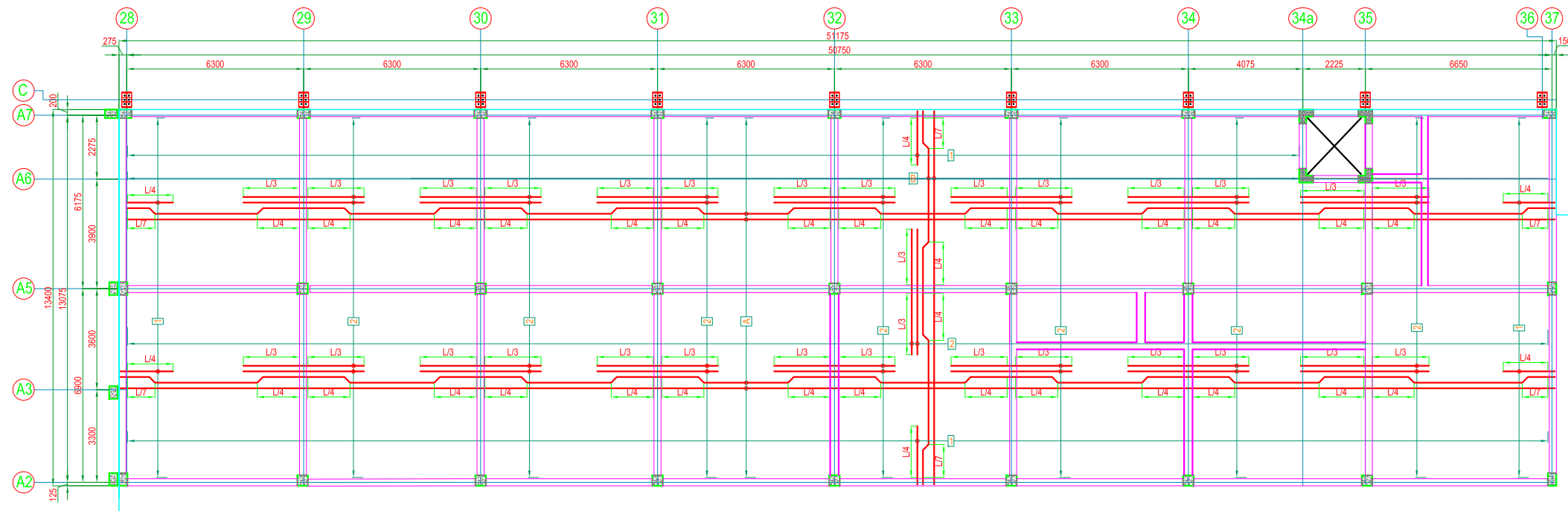
ST_216

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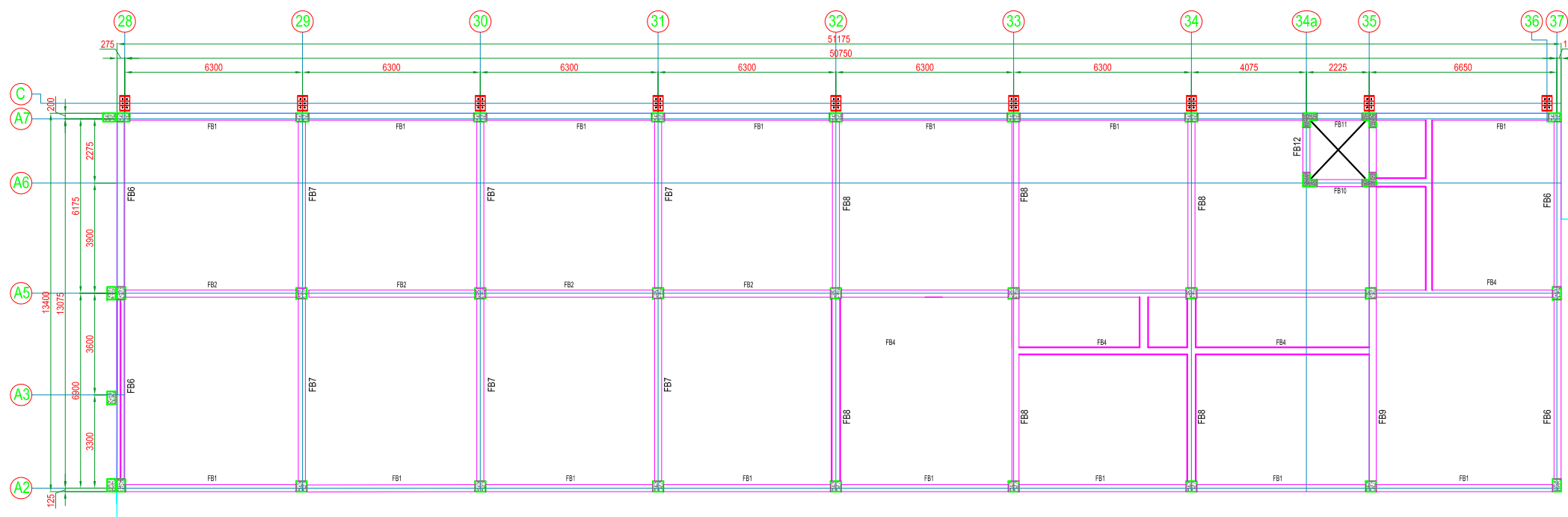
RE-00

DATE

FEBRUARY - 24 - 2024



REINFORCEMENT DETAILS OF 1ST FLOOR ROOF SLAB AT SLAB TOP +8.50m LEVEL (GRID 28-36)



1ST FLOOR ROOF BEAM LAYOUT PLAN AT + 8.50m LEVEL (GRID 28-36)

PROJECT

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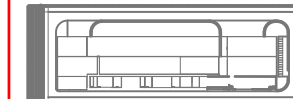
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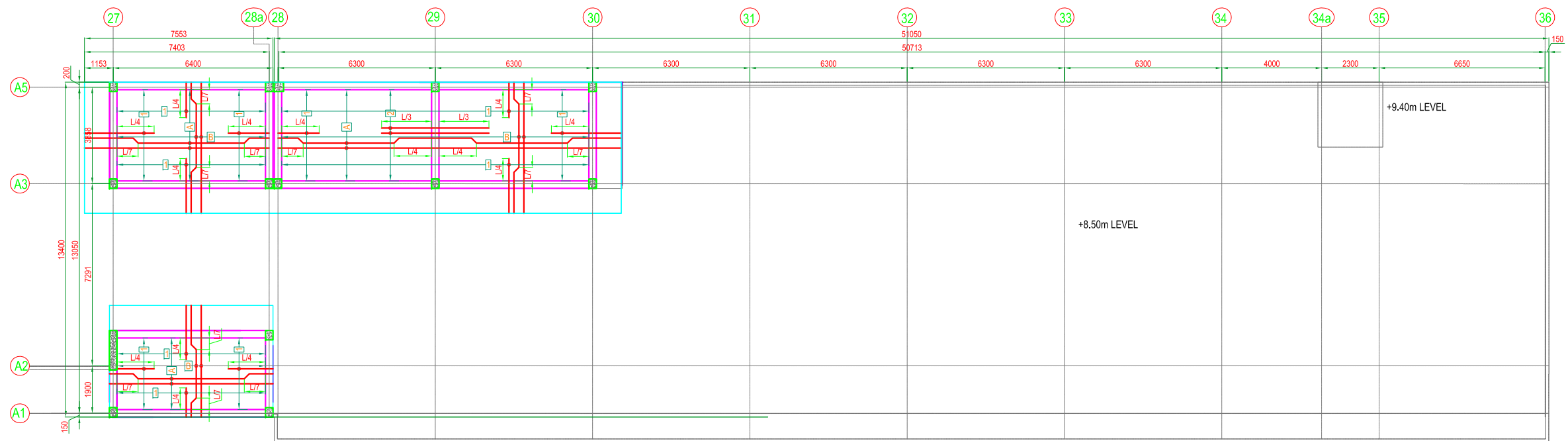
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REVISION NO :

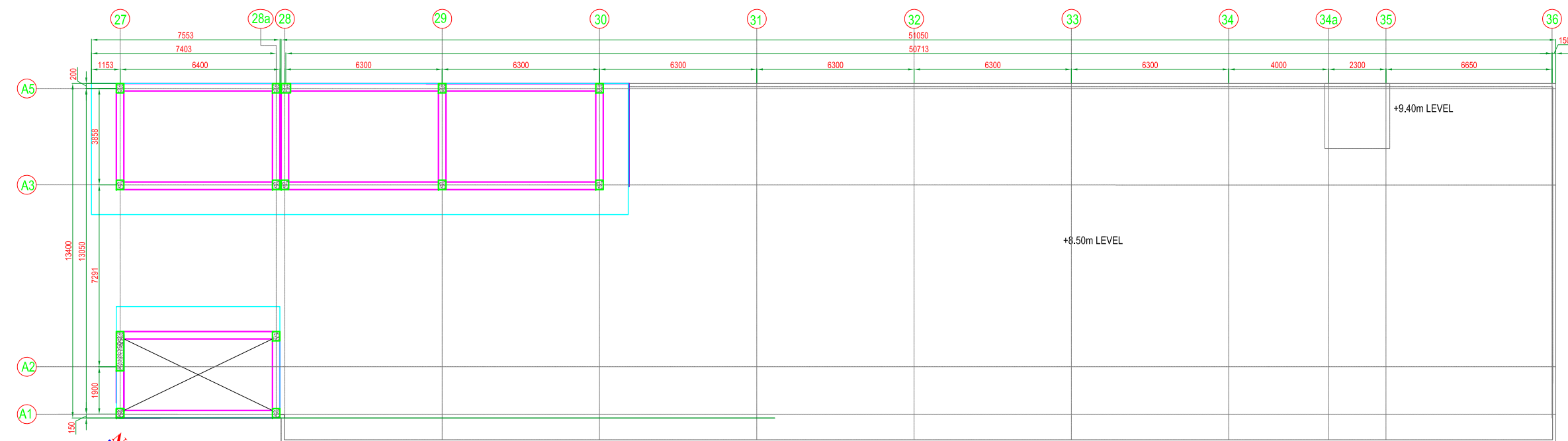
RE-00

DATE

FEBRUARY - 24 - 2024



REINFORCEMENT DETAILS OF ROOF SLAB AT TOP+11.50 LEVEL



ROOF TOP BEAM LAYOUT PLAN AT +11.50m LEVEL

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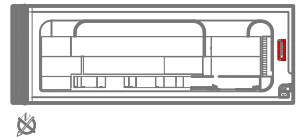
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SCALE :

AS NOTED

SHEET NO :

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REVISION NO :

RE-00

DATE

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